

# ***SNAPPER* PRO<sup>TM</sup>** **Parts Manual** **SW20 Series** **Walk-Behind Mower**

**Models:**

5900702  
5900700

**Description:**

SW20KAV1336, 36" 13HP Kawasaki Walk Behind Mower  
SW20KAV1748, 48" 17HP Kawasaki Walk Behind Mower

**Briggs and Stratton Yard Power Products Group**

5375 North Main Street  
Munnsville, NY 13409 USA  
800-933-6175

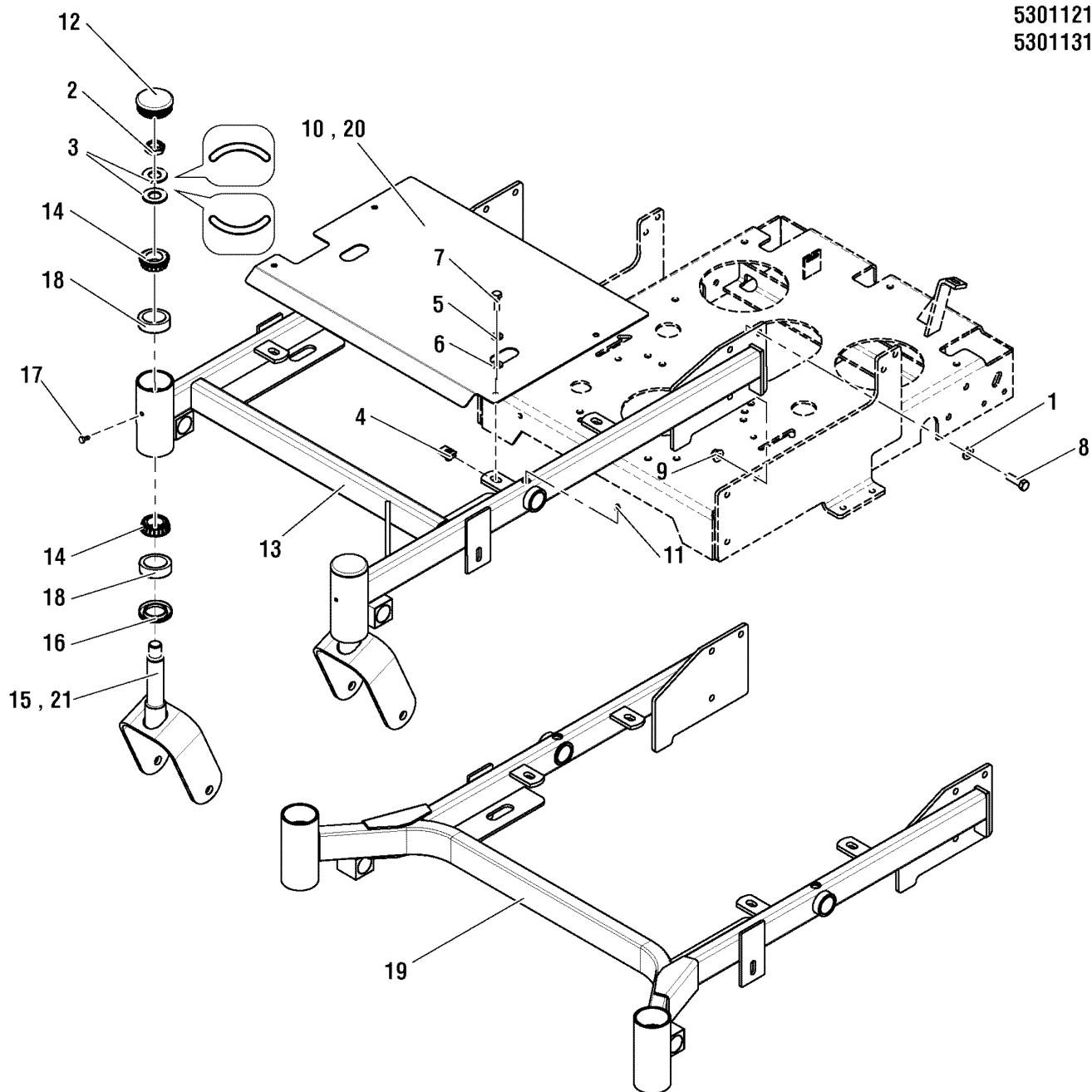
5101265  
Revision IR  
Rev. Date: 1/2008  
TP 400-7338-IR-WD-SP



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## Front Frame Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



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The above parts group applies to the following Mfg. Nos.:

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### **Front Frame Group**

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5025158	6	WASHER, 1/2 SAE
2	5025448	2	NUT, 3/4-16, HEX JAM NYLON LOCK
3	5025449	4	WASHER, BELLEVILLE - 1.500 X .755
4	5025452	4	BODY CLIP, 5/16-18 -1/4 MATERIAL
5	5025170	4	WASHER, 5/16 LOCK YZ
6	5025155	4	WASHER, 5/16 SAE
7	5025011X8	4	BOLT, 5/16-18 X 1 GD5 YZ
8	5025017X10	6	BOLT, 1/2-13 X 1-1/4 GD5
9	5025396	6	NUT, 1/2-13 HEX NYLOCK FLANGE
10	5403338D	1	PLATE, DECK GUARD - SNP PRO WB 36 (13 HP MODELS ONLY)
11	5021637	2	GREASE FITTING, PRESS, SHORT
12	5100882	2	CAP, CASTER SPINDLE, LOW PROFILE
13	5403289D	1	WELD,FRONT FRAME, 36 SNP PRO WB - RED (13 HP MODELS ONLY)
14	5020884	4	BEARING, TAPERED ROLLER, 1"
15	5402240D	2	WELD, CASTER YOKE, SW20 - 36" RED (13 HP MODELS ONLY)
16	5021072	2	SEAL GREASE
17	5025457	2	BOLT, 1/4-28 X 1/2, GD5 YZ
18	5020883	4	CUP, BEARING (SV)
19	5403626D	1	WELD, FRONT FRAME, 48 WB - RED (17 HP MODELS ONLY)
20	5403429D	1	GUARD, DECK LIFT (17 HP MODELS ONLY)
21	5403627D	2	WELD, CASTER YOKE, SW20 - 48" RED (17 HP MODELS ONLY)

### **Footnotes**

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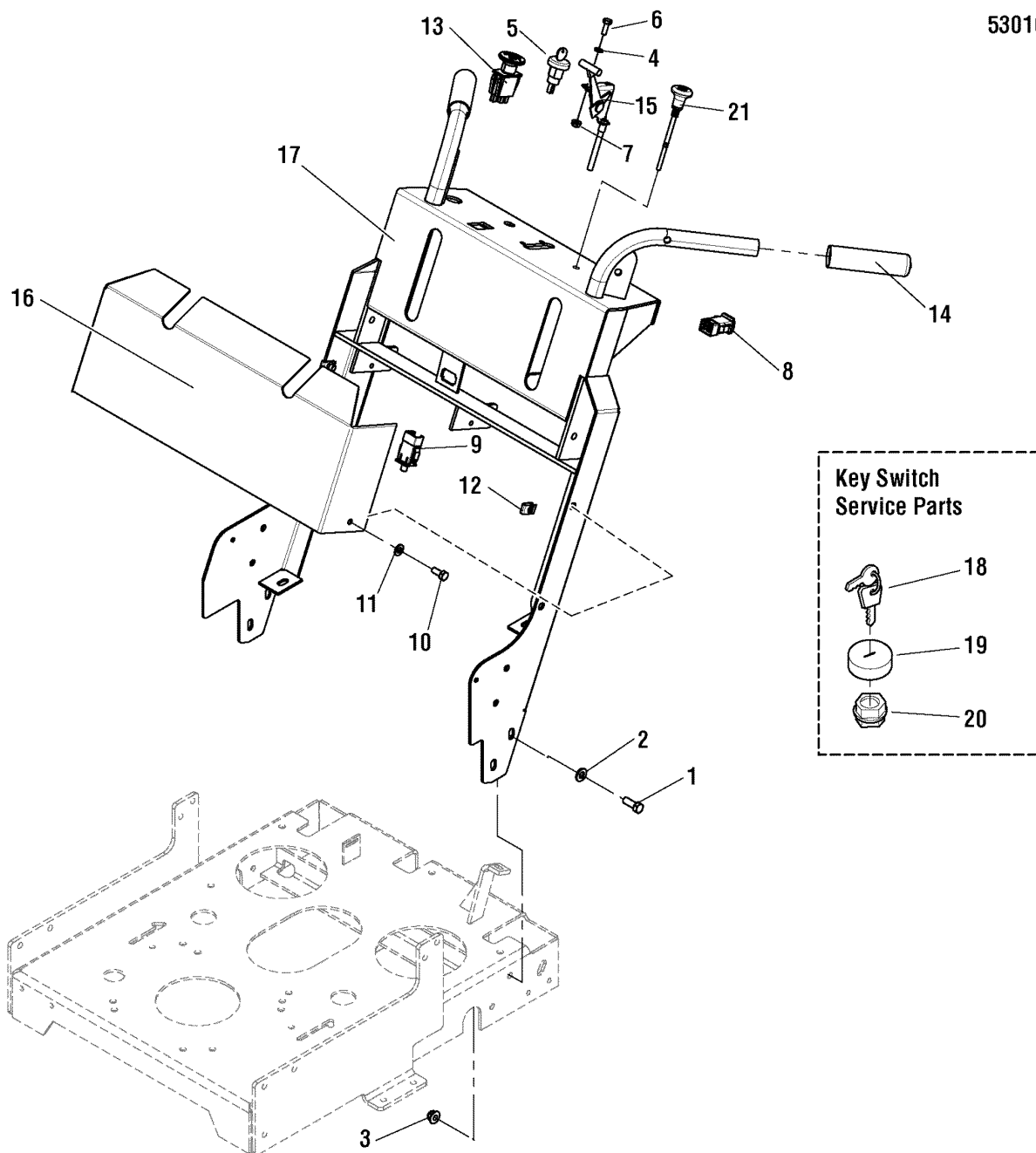
**The above parts group applies to the following Mfg. Nos.:**

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## Handle Bar & Instrument Control Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:

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### ***Handle Bar & Instrument Control Group***

<b>REF NO.</b>	<b>PART NO.</b>	<b>QTY.</b>	<b>DESCRIPTION</b>
1	5025013X8	6	BOLT, 3/8-16 X 1 GD5 YZ
2	5025293	6	WASHER, 3/8 GD.9 FLAT
3	5025394	6	NUT, 3/8-16 HEX NYLOCK FLANGE
4	5025154	2	WASHER, 1/4 SAE
5	5021842	1	SWITCH, IGNITION, 2 POST (Includes Ref Nos 18 - 20)
6	5025010X6	2	BOLT, 1/4-20 X 3/4 GD5 YZ
7	5025391	2	NUT, 1/4-20 HEX NYLOCK FLANGE
8	5101280	1	SWITCH, PLUNGER, NO/NC SNAP-IN, LOW PROFILE
9	5101216	1	SWITCH, PLUNGER, NC, SINGLE POLE SNAP-IN
10	5025011X6	4	BOLT, 5/16-18 X 3/4 GD5
11	5025155	4	WASHER, 5/16 SAE
12	5022308	4	BODY CLIP, 5/16-18 X 1/2 DEEP
13	5022180	1	SWITCH, BLADE ENGAGEMENT
14	5021841	2	GRIP, FOAM, .940" X 5" X .187"
15	5101213	1	CABLE, THROTTLE, 54"
16	5403605D	1	COVER, FRONT HANDLEBAR - RED
17	5403094D	1	WELD, HANDLE BAR - RED
18	5022789	1	KEY, IGNITION, MOLDED SET (SV)
19	5022790	1	COVER (SV)
20	5022791	1	PLASTIC NUT (SV)
21	5047912	1	CABLE, CHOKE CONTROL, 56"

### **Footnotes**

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**The above parts group applies to the following Mfg. Nos.:**

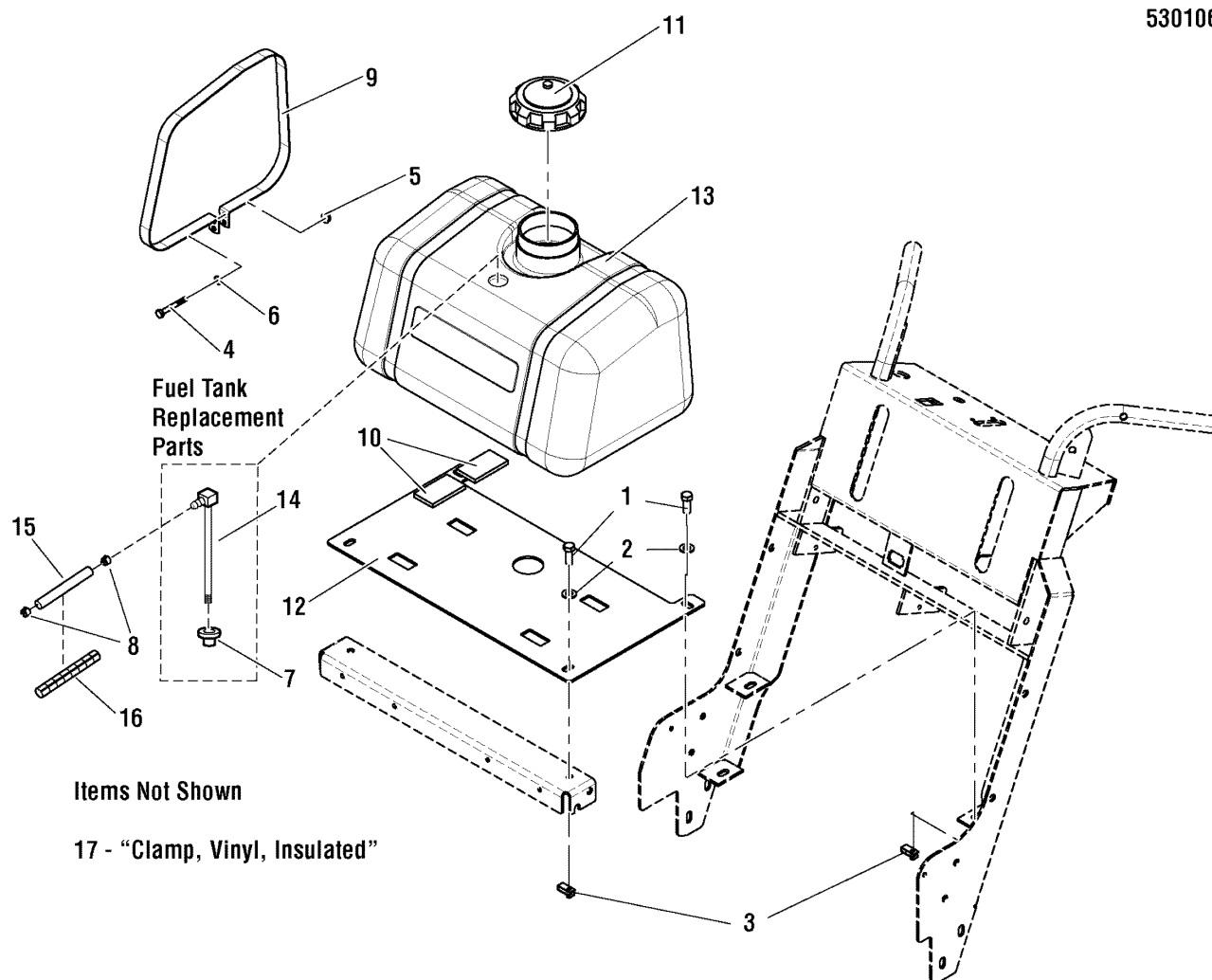
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## Fuel Tank & Mount Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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The above parts group applies to the following Mfg. Nos.:

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### ***Fuel Tank & Mount Group***

<b>REF NO.</b>	<b>PART NO.</b>	<b>QTY.</b>	<b>DESCRIPTION</b>
1	5025013X8	4	BOLT, 3/8-16 X 1 GD5 YZ
2	5025156	4	WASHER, 3/8 SAE
3	5022649	4	BODY CLIP, 3/8-16 X .688" DEEP
4	5025010X16	2	BOLT, 1/4-20 X 2", GD5
5	5025391	2	NUT, 1/4-20 HEX NYLOCK FLANGE
6	5025154	2	WASHER, 1/4 SAE
7	5600050	1	KIT, BUSHING (SV)
8	5020835	2	CLAMP, HOSE, EXTERNAL, 1/2 - RED
9	5403445A	2	STRAP, FUEL TANK - SNP PRO DDS - BLK
10	5101270	4	PAD, RUBBER MOUNT, 1/4 MAT
11	5101272	1	FUEL CAP, 3.5", VENTED
12	5403229D	1	PLATE, FUEL TANK MOUNT - RED
13	5101231	1	TANK, FUEL, SNAPPER PRO WALK BEHIND (Includes Ref Nos 7 & 14)
14	5101261	1	PICKUP TUBE ASM, FUEL TANK, 8.0" (SV)
15	5050831X19	1	HOSE, 1/4" FUEL, 19.00"
16	5050833X18	1	WIRE LOOM, 1/2" ID, 18" LONG
17	5021500	1	CLAMP, VINYL INSULATED (NOT SHOWN - ATTACHES TO ENGINE)

### **Footnotes**

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**The above parts group applies to the following Mfg. Nos.:**

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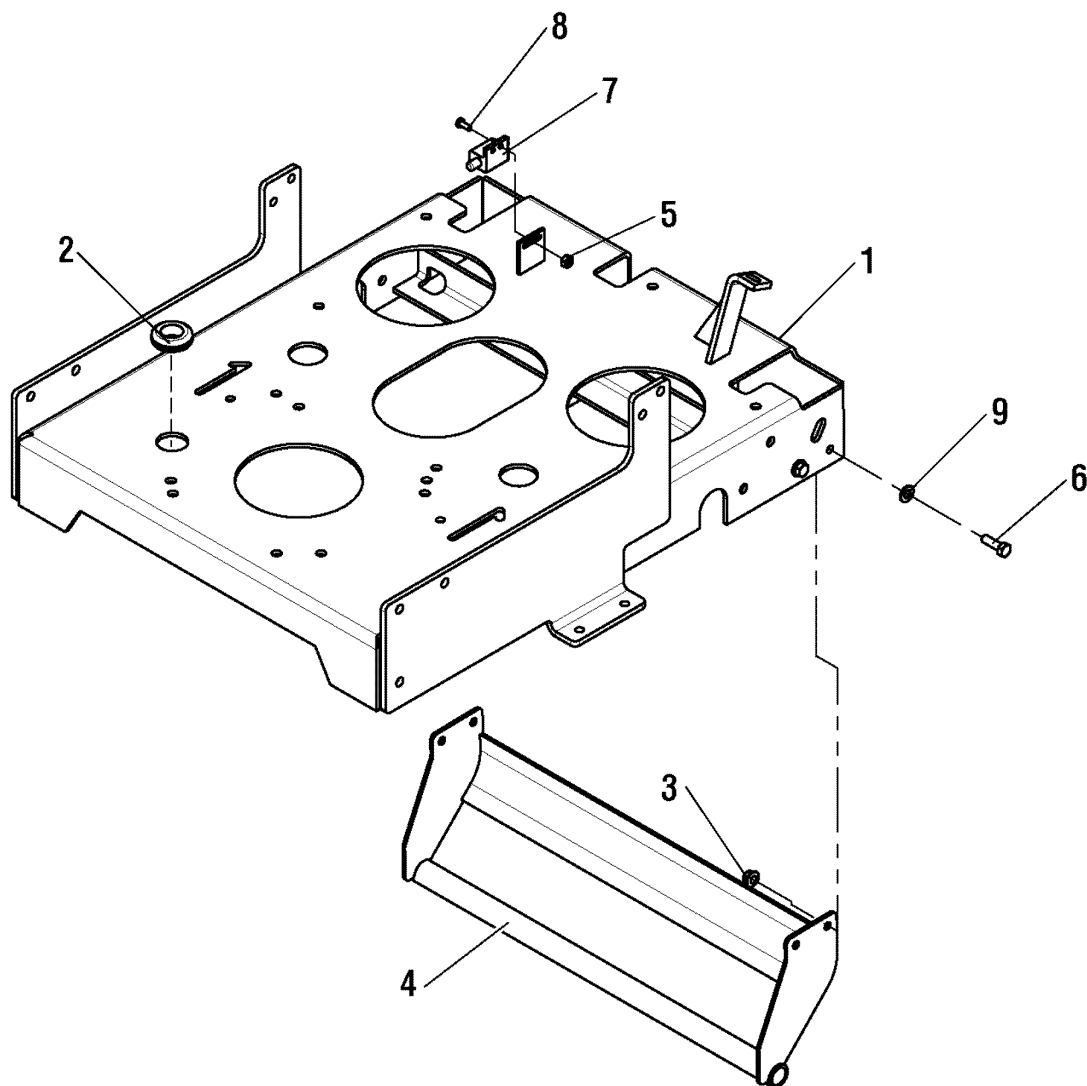
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## Engine Deck Group

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NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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The above parts group applies to the following Mfg. Nos.:

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### ***Engine Deck Group***

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5403082D	1	WELD, ENGINE DECK, SNP PRO WB - RED
2	5021379	1	GROMMET, 7/8
3	5025392	4	NUT, 5/16-18 HEX NYLOCK FLANGE
4	5403441D	1	WELD, BUMPER - SNP PRO DDS - RED
5	5025029	2	NUT, #10-24 HEX
6	5025011X8	4	BOLT, 5/16-18 X 1 GD5 YZ
7	5021769	1	SWITCH, PLUNGER, N.C.
8	5025179X4	2	SCREW, #10-24 X 1/2 ROUND PHILLIPS
9	5025155	4	WASHER, 5/16 SAE

### **Footnotes**

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**The above parts group applies to the following Mfg. Nos.:**

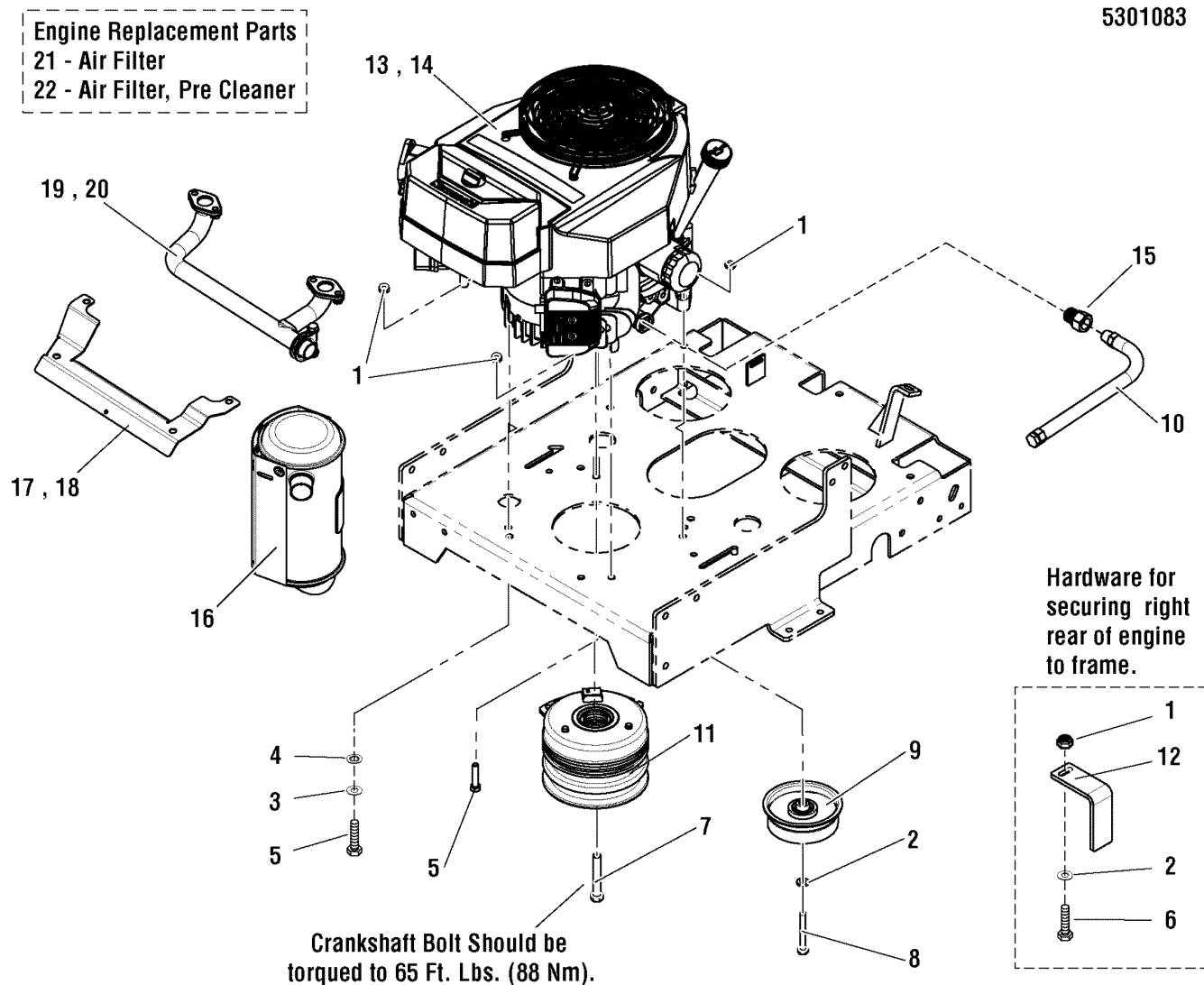
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## Engine & PTO Group - 13 HP & 17 HP Kawasaki

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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The above parts group applies to the following Mfg. Nos.:

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**Engine & PTO Group - 13 HP & 17 HP Kawasaki**

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5025057	4	NUT, 5/16-18 HEX NYLON LOCK
2	5025292	1	WASHER, 5/16 GD.9 FLAT
3	5025155	1	WASHER, 5/16 SAE
4	5025188	1	WASHER, 5/16" INT. TOOTH LOCK
5	5025011X12	2	BOLT, 5/16-18 X 1-1/2" GD5 YZ
6	5025011X14	1	BOLT, 5/16-18 X 1-3/4 GD5 YZ
7	5047632	1	BOLT, CRANKSHAFT, 7/16X2-3/4, PATCH YZ
8	5025011X20	1	BOLT, 5/16-18 X 2-1/2" GD5 YZ
9	5022621	1	PULLEY, IDLER, SINGLE FLANGE
10	5048681	1	HOSE, OIL DRAIN
11	5101175	1	CLUTCH, WARNER, SNAPPER PRO WALK
12	5403009D	1	ANCHOR, CLUTCH - RED
13	-	1	ENGINE, 13HP KAW, FH381V-AS21 (13 HP MODELS ONLY)
14	-	1	ENGINE, 17HP KAW, FH541V-AS21 (17 HP MODELS ONLY)
15	5022234	1	ADAPTER, OIL DRAIN
16	7075551X3	1	MUFFLER (SV)
17	7075434X2	1	HEAT SHIELD, EXHAUST MANIFOLD (SV) (13 HP MODELS ONLY)
18	7075551X5	1	HEAT SHIELD, EXHAUST MANIFOLD (SV) (17 HP MODELS ONLY)
19	7075434X1	1	MANIFOLD. EXHAUST (SV) (13 HP MODELS ONLY)
20	7075551X4	1	MANIFOLD. EXHAUST (SV) (17 HP MODELS ONLY)
21	7075551X1	1	AIR FILTER (SV)
22	7075551X2	1	PRE AIR FILTER (SV)

**Footnotes**

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The above parts group applies to the following Mfg. Nos.:

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**NOTE: Unless noted otherwise, use the standard hardware torque specification chart.**

This exploded view diagram illustrates the assembly of a mechanical component onto a base plate. The base plate (10) features several mounting holes and slots. The assembly process involves the following steps and components:

- Base Mounting:** A bracket (6) is secured to the base plate (10) using a screw (1) and a washer (17). A pin (2) is also used to secure the bracket.
- Shaft Assembly:** A shaft (4) is inserted through the base plate (10) and a bush (3). A pulley (8) is mounted onto the shaft (4) using a pin (17). A spring (7) is attached to the shaft (4) via a pin (2).
- Vertical Rod Assembly:** A vertical rod (11) is inserted through a series of bushings (12, 13, 14) and a cap nut (14). A pin (2) is used to secure the top of this assembly.
- Bottom Mounting:** A pin (5) is inserted through the base plate (10) and a bush (15).

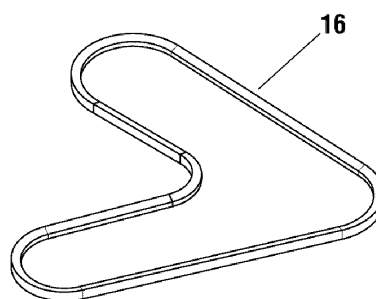
The diagram uses dashed lines to indicate the alignment and assembly path for each component.

**Transmission Pulleys**

**Adjustable Idler Pulley**

**Engine Deck Pulley**

**Engine Pulley**



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### ***Pump Drive Group***

<b>REF NO.</b>	<b>PART NO.</b>	<b>QTY.</b>	<b>DESCRIPTION</b>
1	5025013X8	1	BOLT, 3/8-16 X 1 GD5 YZ
2	5025394	5	NUT, 3/8-16 HEX NYLOCK FLANGE
3	5025013X28	1	BOLT, 3/8-16 X 3-1/2 GD5 YZ
4	5025013X32	1	BOLT, 3/8-16 X 4 GD5 YZ
5	5050407X8	1	KEY, 1/4 SQ. X 1.00
6	5025429	1	EYE BOLT, 3/8-16 X 4", 3/4" EYE
7	1608395	1	SPRING-EXTN 1.040ODX 04.000LG .105WIRE D
8	5022621	1	PULLEY, IDLER, SINGLE FLANGE
9	5101245	1	SPACER, .38 X .75 X 1.25, YZ
10	5045200D	1	WELD, ANCHOR EYEBOLT
11	5046430D	1	WELD, ARM, PUMP DRIVE IDLER - RED
12	5045135	1	SPACER, .39 X 1.00 X 2.55
13	5022157	2	BUSHING, BRASS, 1.25X1X1.25
14	5025305	2	WASHER, .41 X 1.75 X .14
15	5101311	1	PULLEY, CRANKSHAFT
16	5021770	1	BELT, #7-5331
17	5025156	2	WASHER, 3/8 SAE

### **Footnotes**

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**The above parts group applies to the following Mfg. Nos.:**

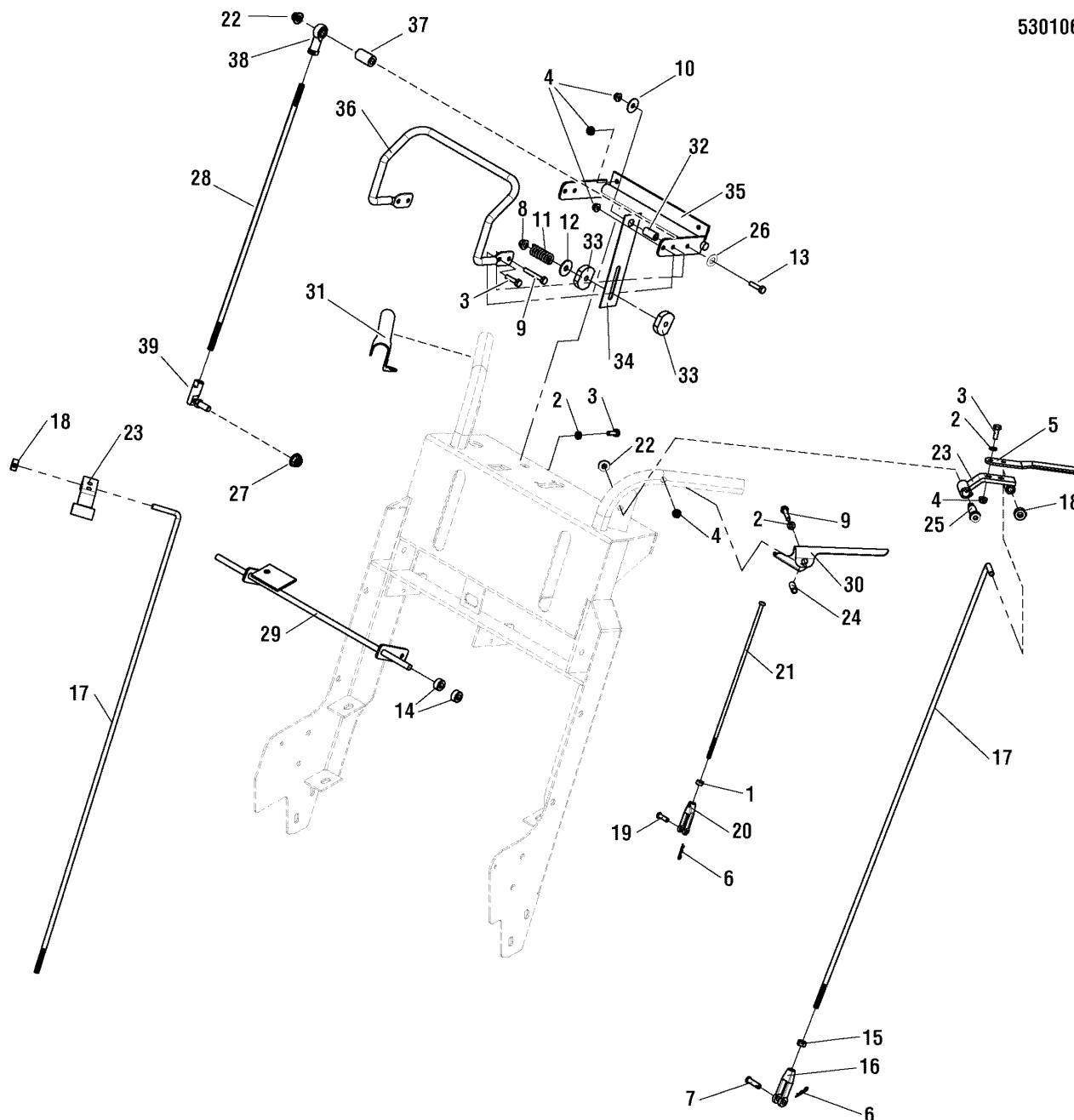
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## Motion Control Group - Upper

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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The above parts group applies to the following Mfg. Nos.:

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**Motion Control Group - Upper**

REF NO.	PART NO.	QTY.	DESCRIPTION
1	7090095	2	NUT, HEX 1/4F GR5 YZ
2	5025154	10	WASHER, 1/4 SAE
3	5025010X6	5	BOLT, 1/4-20 X 3/4 GD5 YZ
4	5025391	9	NUT, 1/4-20 HEX NYLOCK FLANGE
5	5101287A	2	LEVER, REVERSE HANDLE
6	5025211	5	PIN, HAIR, .0585 X 1-1/8, 1/4 EYE, YZ
7	5025213X8	2	PIN, CLEVIS, 5/16 X 1 YZ
8	5025392	1	NUT, 5/16-18 HEX NYLOCK FLANGE
9	5025010X14	3	BOLT, 1/4-20 X 1-3/4" GD5 YZ
10	5025288	1	WASHER, 1/4" FENDER
11	5021773	1	SPRING, BRAKE
12	5025164	1	WASHER, 5/16" FENDER
13	5025013X20	1	BOLT, 3/8-16 X 2-1/2"
14	5010546	3	COLLAR, 3/8" SET
15	5025033	2	NUT, 5/16-24 HEX
16	5020979	2	CLEVIS, 5/16-24, PLASTIC
17	5101244	2	ROD, REVERSING, SNP PRO WB
18	5020047	2	COLLAR, 5/16" SET
19	5025212X7	2	PIN, CLEVIS, 1/4 X 7/8
20	5021104	2	CLEVIS, 1/4-28, PLASTIC
21	5101242	2	ROD, OPC LINK, SNP PRO WB
22	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
23	5403307D	2	WELD, REVERSE HANDLE - RED
24	5101215	2	SPACER, .26 X .38 X 1.250, YZ
25	5025220	2	BOLT, 3/8-16 x 1-1/2", 1/2" SHOULDER
26	5025156	2	WASHER, 3/8 SAE
27	5025097	1	NUT, 3/8-24 HEX NYLON LOCK
28	5101236	1	ROD, CRUISE CONTROL, SNP PRO WB
29	5403239D	1	WELD, OPC SHAFT- RED
30	5403282A	1	FLAP, OPC - LH - SNP WB
31	5403283A	1	FLAP, OPC - RH - SNP WB
32	5101274	1	SPACER, .26 X .50 X 1.00 YZ
33	5044726	2	DDS BRAKE PUCK
34	5403778	1	PLATE, FRICTION CONTROL
35	5403776D	1	WELD, SPEED CONTROL, DDS - RED
36	5100744	1	BAR, SPEED CONTROL, DIPPED
37	5101245	1	SPACER, .38 X .75 X 1.25, YZ
38	5022392	1	ROD END, 3/8-24 LH FEMALE
39	5020805	1	SPACER, .38 X .75 1.25 YZ

**Footnotes**

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The above parts group applies to the following Mfg. Nos.:

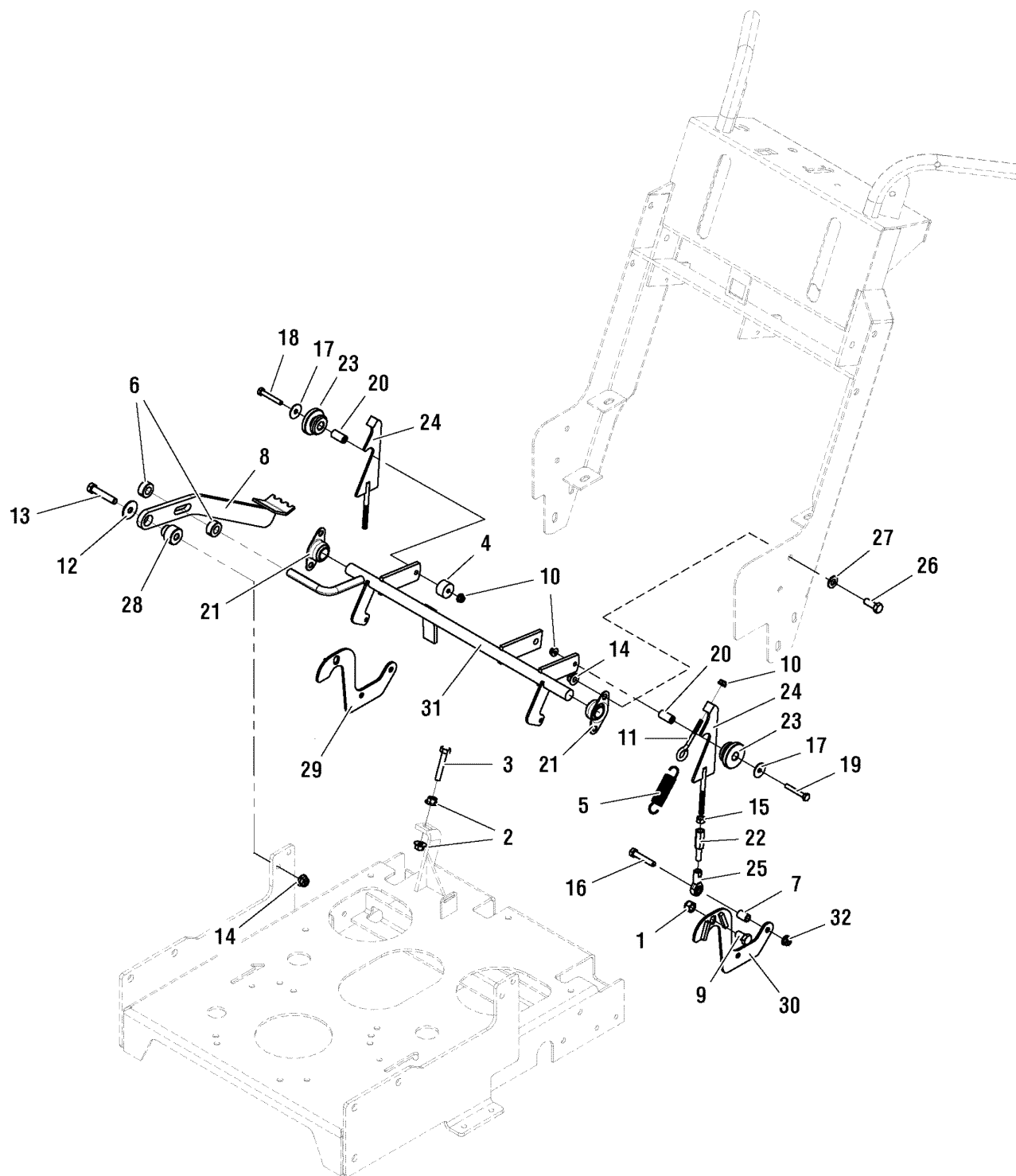
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## Motion Control Group - Lower

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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The above parts group applies to the following Mfg. Nos.:

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**Motion Control Group - Lower**

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5025125	2	NUT, 7/16-14 HEX NYLON LOCK
2	5025139	2	NUT, 5/16-18 HEX SERRATED FLANGE (LARGE)
3	5025055X14	1	BOLT, 5/16-18 X 1-3/4 GD5 TFL
4	5101281	1	SPACER, .26 X .50 X .50 YZ
5	5101339	2	SPRING, EXTENSION, 3.281 X .751 X .075 WIRE
6	5010580	2	COLLAR, 1/2" SET
7	5101352	2	SPACER, .33 X .50 X .75, YZ
8	5403330D	1	WELD, PEDAL, NEUTRAL RETURN - RED
9	5025015X6	2	BOLT, 7/16-14 X 3/4, GD 5 YZ
10	5025391	4	NUT, 1/4-20 HEX NYLOCK FLANGE
11	5025189X24	2	EYE BOLT, 1/4-20 X 3, ZC
12	5101414	1	WASHER, .390 X 1.25 X 1.00, YZ
13	5025013X16	1	BOLT, 3/8-16 X 2 GD5 YZ
14	5025394	5	NUT, 3/8-16 HEX NYLOCK FLANGE
15	5023212	2	NUT, 5/16-24 HEX, LH
16	5025011X16	2	BOLT, 5/16-18 X 2", GD5
17	5025288	2	WASHER, 1/4" FENDER
18	5025010X18	1	BOLT, 1/4-20 X 2-1/4", GD5
19	5025010X14	1	BOLT, 1/4-20 X 1-3/4" GD5 YZ
20	5100832	2	SLEEVE, CRUISE CONTROL ROLLER
21	5021098	2	BEARING, BRONZE FLANGE, 3/4
22	5101243	2	ADJUSTER, ROD LINKAGE 5/16-24
23	5100766	2	ROLLER, SPEED CONTROL
24	5101240	2	ROD, CONTROL RAMP
25	5021146	2	BALL JOINT, 5/16-24, FEMALE
26	5025013X8	4	BOLT, 3/8-16 X 1 GD5 YZ
27	5025156	4	WASHER, 3/8 SAE
28	5101262	1	SPACER, .38 X 1.13 X 1.00 STEP, YZ
29	5403406D	1	WELD, CONTROL ARM - RH - RED
30	5403405D	1	WELD, CONTROL ARM - LH - RED
31	5403353D	1	WELD, CONTROL SHAFT - RED
32	5025392	2	NUT, 5/16-18 HEX NYLOCK FLANGE

**Footnotes**

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The above parts group applies to the following Mfg. Nos.:

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**NOTE: Unless noted otherwise, use the standard hardware torque specification chart.**

This exploded view diagram illustrates the assembly of a mechanical unit. The components are numbered as follows:

- 1**: Screws used for mounting the main housing and connecting the two engine blocks.
- 2**: A bracket or support arm.
- 3**: A pin or clip.
- 4**: A small cylindrical component, possibly a bush or spacer.
- 5**: A pin or clip.
- 6**: A pin or clip.
- 7**: A pin or clip.
- 8**: A pin or clip.
- 9**: Screws used for mounting the engine blocks to the base.
- 10**: A long pin or screw.
- 11**: A pin or clip.
- 12**: A pin or clip.
- 13**: A flange or mounting plate.
- 14**: A bracket or support arm.
- 15**: The right-hand engine block.
- 16**: The left-hand engine block.
- 17**: A long horizontal beam or support.
- 18**: A cylindrical component, possibly a filter or cap.
- 19**: A long pin or screw.
- 20**: A long pin or screw.
- 21**: A long pin or screw.
- 22**: Washers or spacers.

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### ***Hydraulic Group***

<b>REF NO.</b>	<b>PART NO.</b>	<b>QTY.</b>	<b>DESCRIPTION</b>
1	5025292	8	WASHER, 5/16 GD.9 FLAT
2	5020047	4	COLLAR, 5/16 SET
3	5025156	3	WASHER, 3/8 SAE
4	5025013X8	3	BOLT, 3/8-16 X 1 GD5 YZ
5	5025394	3	NUT, 3/8-16 HEX NYLOCK FLANGE
6	5025010X8	4	BOLT, 1/4-20 X 1", GD5
7	5025391	4	NUT, 1/4-20 HEX NYLOCK FLANGE
8	5025154	4	WASHER, 1/4 SAE
9	5025011X14	2	BOLT, 5/16-18 X 1-3/4 GD5 YZ
10	5025011X44	2	BOLT, 5/16-18 X 5-1/2, GD 5, YZ
11	5025392	6	NUT, 5/16-18 HEX NYLOCK FLANGE
12	5025011X22	4	BOLT, 5/16-18 X 2-3/4, GD 5, YZ
13	5403335D	2	PLATE, WHEEL SPACER - 1/4" - RED (13 HP MODELS ONLY)
14	5101276	2	ROD, HYDRO RELEASE, SNP PRO WB
15	5101189	1	TRANSMISSION, LH, HG ZH-KMBB-3A5A-1LLX
16	5101188	1	TRANSMISSION, RH, HG ZH-GMBB-3A5A-1LLX
17	5403228D	1	PLATE, HYD TANK MOUNT - RED
18	5100473	2	RESERVOIR, HYDRO OIL, 350 ML
19	5101176	1	SPACER, HYDRO LINK, SNP PRO WB
20	5101177	2	SPACER, .34 X .75 X 3.27, YZ
21	5050857X4P25	2	HOSE, 1/2" X 4.25 PUSH-ON
22	5025474	4	CLAMP, HOSE, .75 FREE DIA.

### **Footnotes**

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**The above parts group applies to the following Mfg. Nos.:**

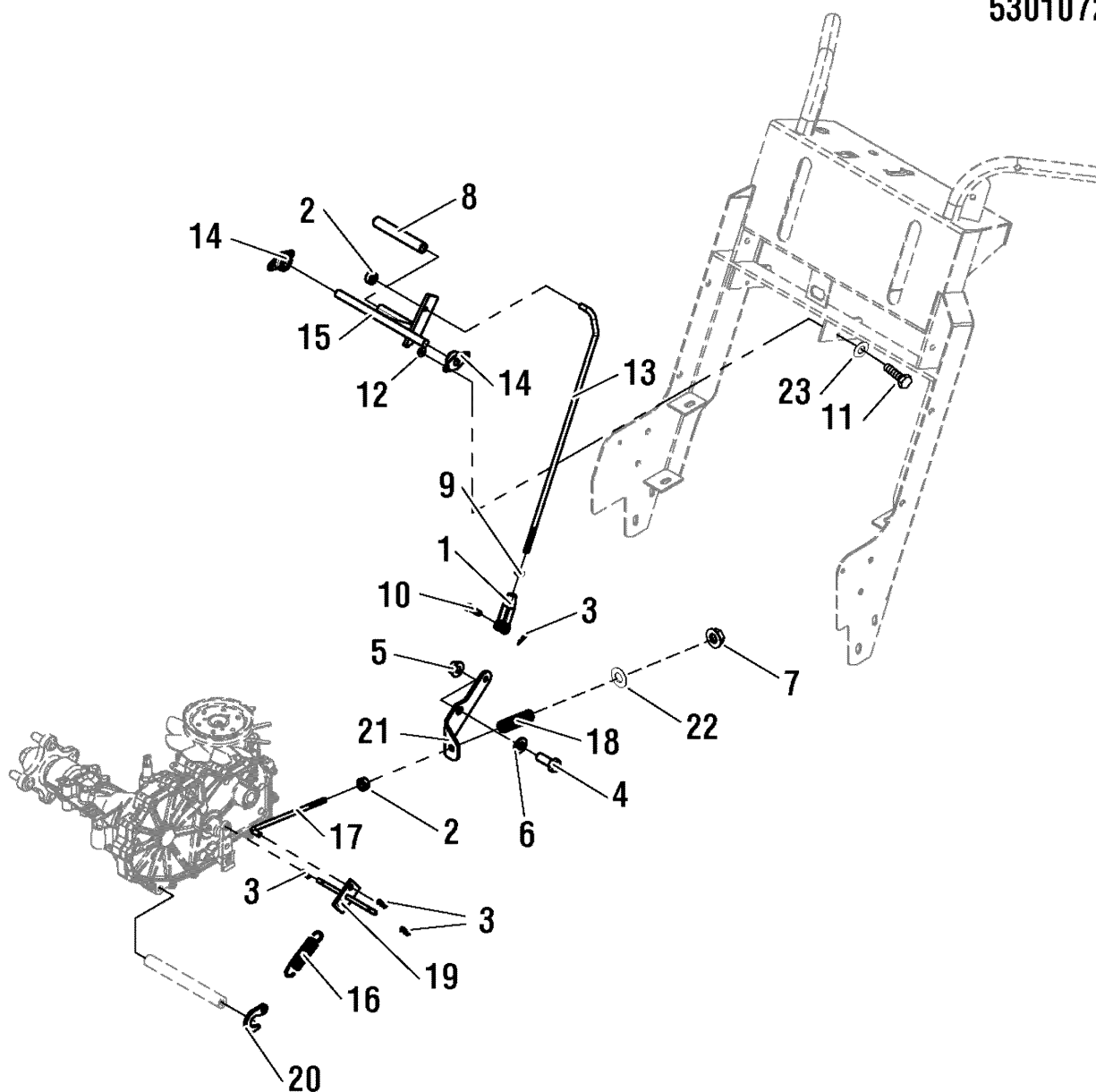
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## Parking Brake Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

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The above parts group applies to the following Mfg. Nos.:

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### ***Parking Brake Group***

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5020979	1	CLEVIS, 5/16-24, PLASTIC
2	5020047	2	COLLAR, 5/16" SET
3	5025211	4	PIN, HAIR, .0585 X 1-1/8, 1/4 EYE, YZ
4	5025017X12	1	BOLT, 1/2-13 X 1-1/2 GD5 YZ
5	5025396	1	NUT, 1/2-13 HEX NYLOCK FLANGE
6	5025158	1	WASHER, 1/2 SAE
7	5025045	1	NUT, 5/16-24 HEX NYLOCK
8	5021880	1	GRIP, FOAM
9	5023216	1	NUT, 5/16-24 JAM
10	5025213X8	1	PIN, CLEVIS, 5/16 X 1 YZ
11	5025010X6	4	BOLT, 1/4-20 X 3/4 GD5 YZ
12	5025391	4	NUT, 1/4-20 HEX NYLOCK FLANGE
13	5101116	1	ROD, PULLER ROD
14	5101123	2	BEARING, 1/2" FLANGED
15	5403361D	1	WELD BRAKE SHAFT - RED
16	5101253	1	SPRING-EXT, .75 OD X 3.40 LG, X .115 WR
17	5101246	1	ROD, LOWER BRAKE CONTROL
18	5023242	1	SPRING, CONTROL ROD
19	5403395D	1	WELD, BRAKE LINK CONNECTOR - RED
20	5403373D	1	PLATE, SPRING CONNECTOR - RED
21	5403312D	1	LINK, BRAKE PIVOT
22	5025155	1	WASHER, 5/16 SAE
23	5025154	1	WASHER, 1/4 SAE

### **Footnotes**

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**The above parts group applies to the following Mfg. Nos.:**

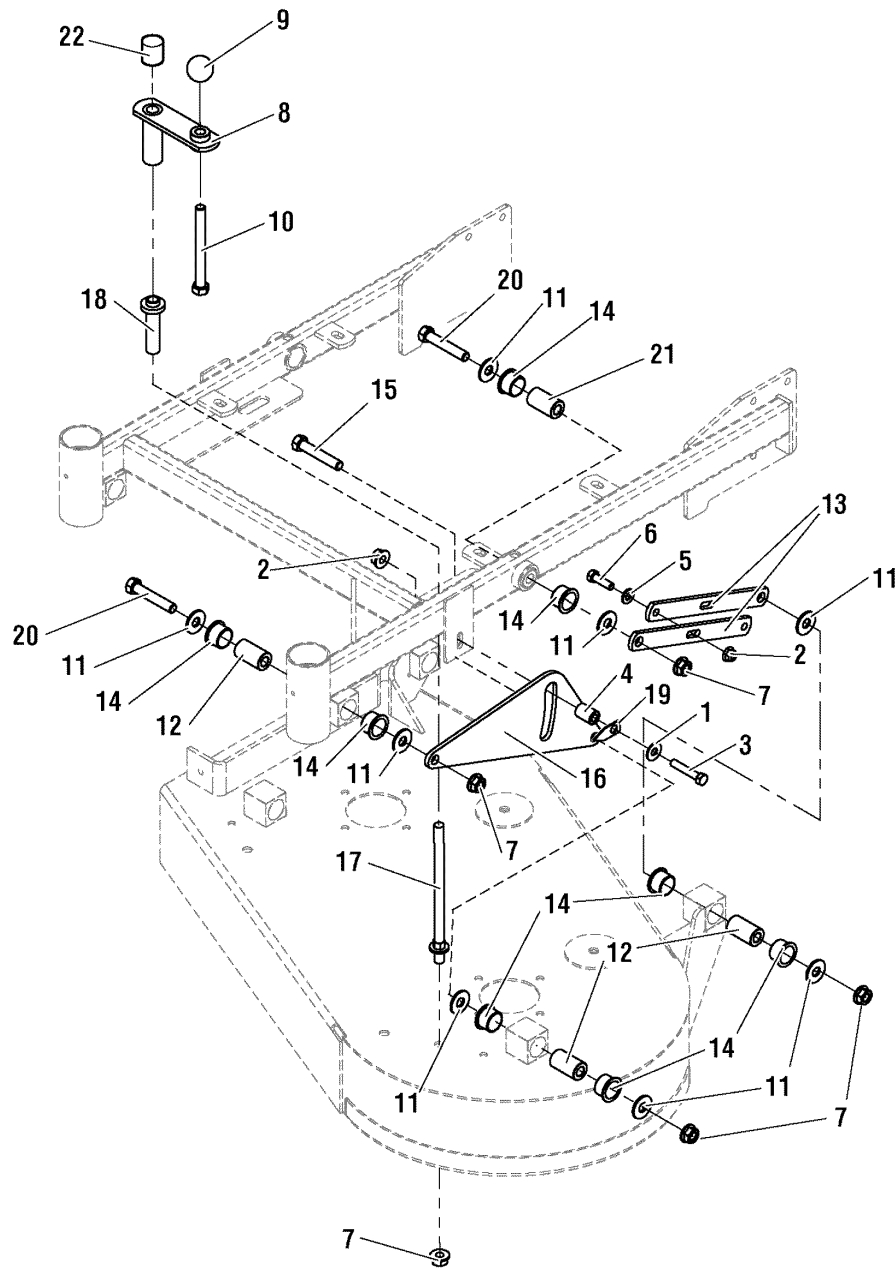
5900702

5900700

## Deck Lift Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

5301076



The above parts group applies to the following Mfg. Nos.:

5900702

5900700



**Deck Lift Group**

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5025401	2	WASHER, 3/8" USS
2	5025394	6	NUT, 3/8-16 HEX NYLOCK FLANGE
3	5025013X16	2	BOLT, 3/8-16 X 2 GD5 YZ
4	5042658	2	SPACER, .39 X .75 X 1.06
5	5025293	4	WASHER, 3/8 GD.9 FLAT
6	5025013X10	4	BOLT, 3/8-16 X 1-1/4 GD5
7	5025396	10	NUT, 1/2-13 HEX NYLOCK FLANGE
8	5403332D	2	WELD, CRANK, DECK LIFT - RED
9	5021733	2	KNOB, PLASTIC, 1/2-13
10	5025017X40	2	BOLT, 1/2-13 X 5 GD5 YZ
11	5025150	16	WASHER, 1/2 USS
12	5101413	6	SPACER, .52 X 1.00 X 1.825
13	5403224D	4	BAR, DECK LIFT - ADJ - RED
14	5023356	16	BUSHING, 1.00X1.13X.75, PLA
15	5025017X22	6	BOLT, 1/2-13 X 2-3/4 GD5
16	5403477D	2	PLATE, DECK HEIGHT INDICATOR - SNP RED
17	7029259	2	STUD, LIFT
18	7046214	2	WELD, LIFT WASHER, YELLOW
19	5101310	2	POINTER, DECK HEIGHT
20	5025017X26	2	BOLT, 1/2-13 X 3-1/4 GD5
21	5043366	2	SPACER, .50 X 1.00 X 2.25
22	5100500	2	CAP, VINYL, .937 ID X 1.00

**Footnotes**

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The above parts group applies to the following Mfg. Nos.:

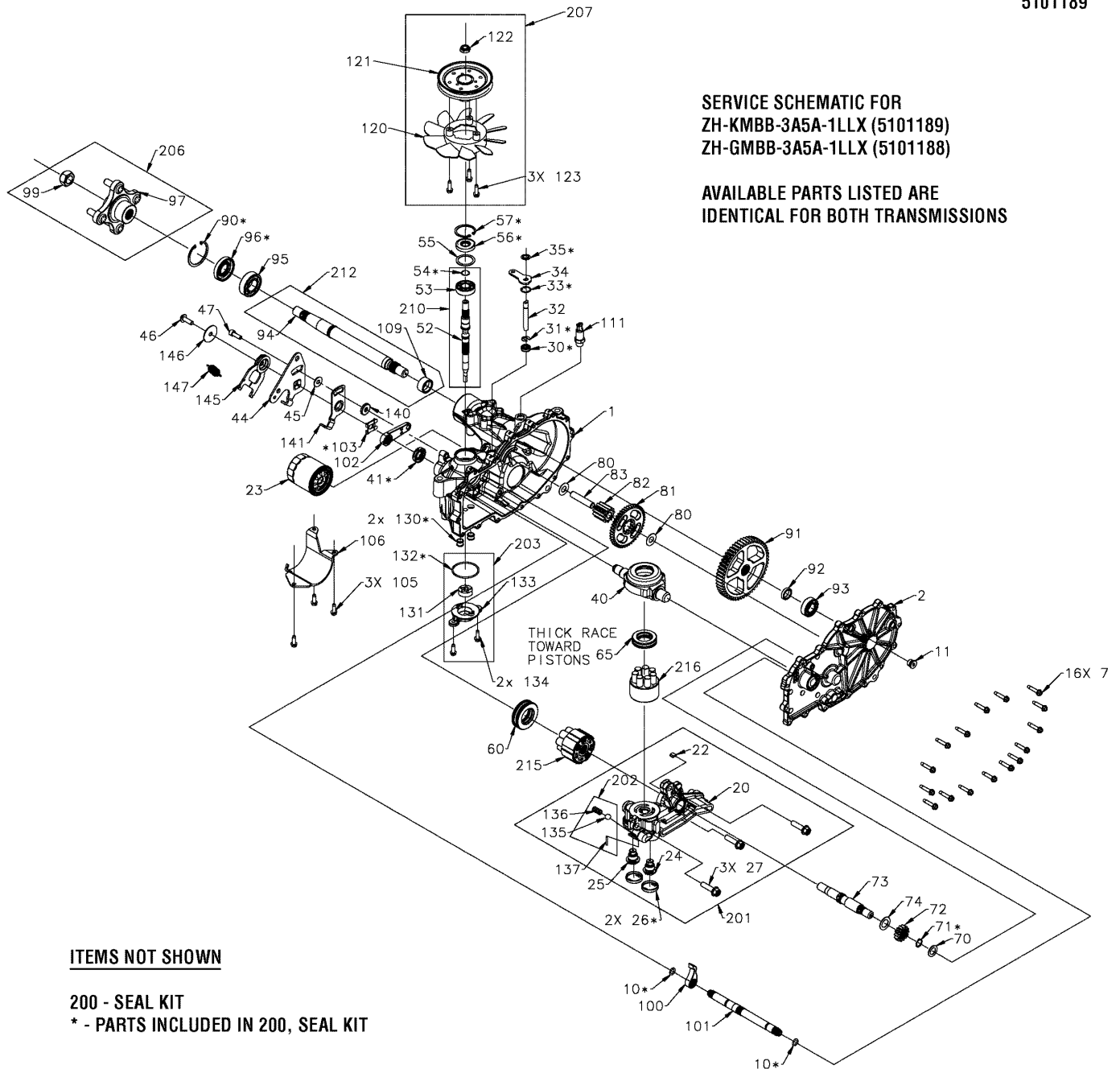
5900702

5900700

## Transmission SERVICE PARTS

**NOTE:** Unless noted otherwise, use the standard hardware torque specification chart.

5101189



The above parts group applies to the following Mfg. Nos.:

5900702  
 5900700

### ***Transmission SERVICE PARTS***

<b>REF NO.</b>	<b>PART NO.</b>	<b>QTY.</b>	<b>DESCRIPTION</b>
23	5101026X1	1	OIL FILTER1
41	5101026X2	1	SEAL, LIP, 18 X 32 X 7
56	5101026X3	1	SEAL, LIP, 17 X 40 X 7
57	5101026X4	1	RING, RET 2.06 INT
95	5101026X5	1	BEARING BALL, 1.0 X 52 X 15 OPEN 6205M
120	5101026X6	1	FAN, 7", 10 BLADE
121	5101026X7	1	PULLEY, 4.5 INCH
200	5101026X8	1	KIT SEAL
210	5101026X9	1	KIT, INPUT SHAFT

### **Footnotes**

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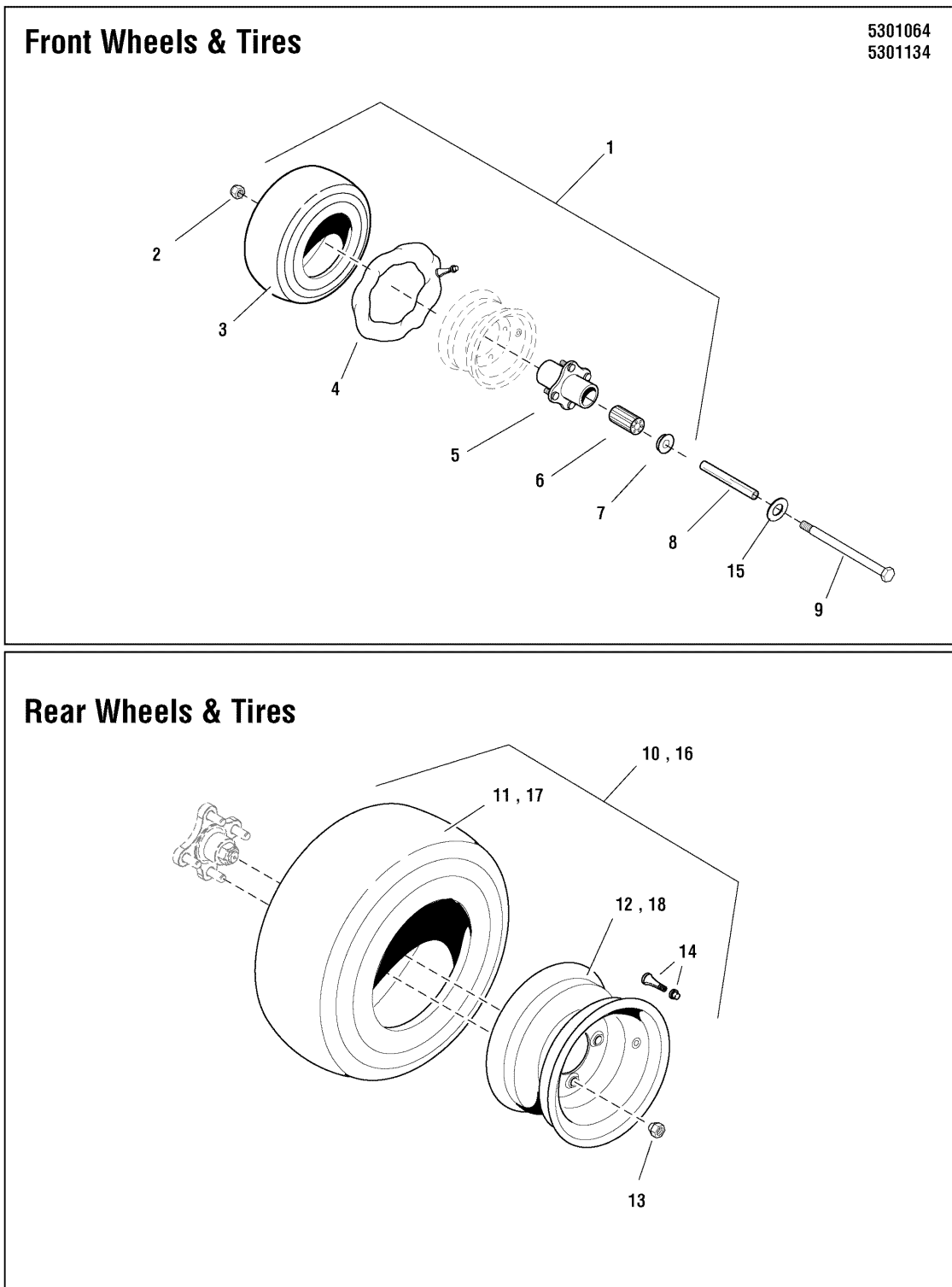
**The above parts group applies to the following Mfg. Nos.:**

5900702

5900700

## Tire & Wheel Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:

5900702

5900700

### ***Tire & Wheel Group***

<b>REF NO.</b>	<b>PART NO.</b>	<b>QTY.</b>	<b>DESCRIPTION</b>
1	5021181S	2	TIRE ASSM, 9 X 3.5 X 4, SILVER
2	5025396	2	NUT, 1/2-13 HEX NYLOCK FLANGE
3	5021181X1	2	TIRE, FRONT 9 X 3.5 X 4 (SV)
4	5021181X2	2	TUBE (SV)
5	5021181X3	2	HUB & BEARING ASSEMBLY (SV)
6	5021182	2	BEARING, ROLLER (ONE PER TIRE)(SV)
7	5021043	2	RETAINER, BEARING (TWO PER TIRE)(SV)
8	5041657	2	AXLE, CASTER WHEEL
9	5025017X44	2	BOLT, 1/2-13 X 5-1/2" GD5 YZ
10	7050539	2	WHEEL ASSY, 18 X 6.50-8, TURF MASTER (13HP MODELS ONLY)
11	7078119	2	TIRE, 18 X 6.5 - 8, TURF MASTER (SV) (13HP MODELS ONLY)
12	7078114	2	RIM, 18 X 6.50, 4 BOLT (SV) (13HP MODELS ONLY)
13	5020601	8	NUT, 1/2-20, FOR WHEEL BOLT SILVER
14	7012234	2	VALVE STEM, SNAP IN (SV) (13HP MODELS ONLY)
15	5025158	2	WASHER, 1/2 SAE
16	5021045S	2	TIRE, 18 X 8.5 X 8, 4 PLY (17 HP MODELS ONLY)
17	5021074	2	TIRE ONLY (SV) (17 HP MODELS ONLY)
18	5021205S	2	WHEEL ONLY (SV) (17 HP MODELS ONLY)

### **Footnotes**

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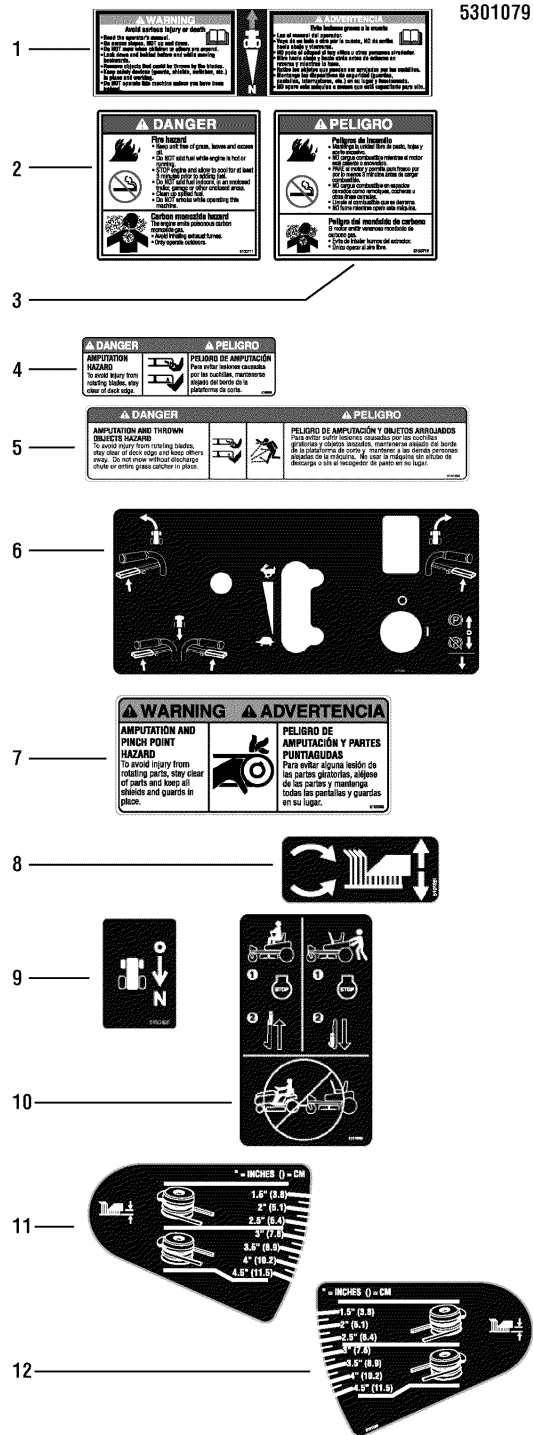
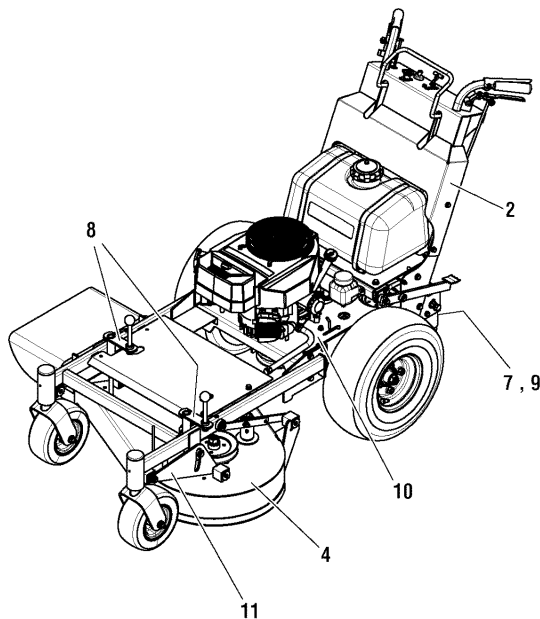
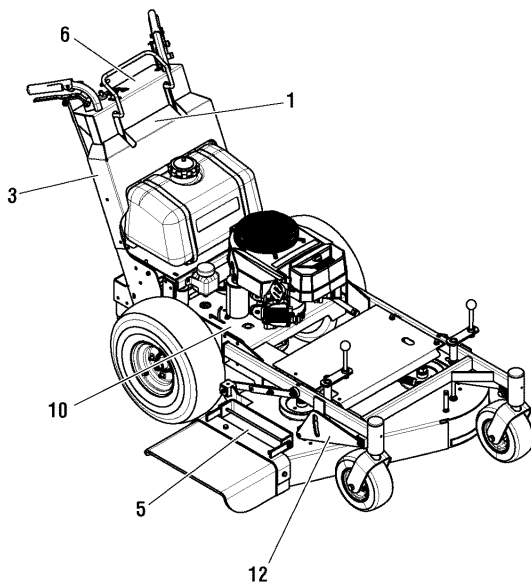
**The above parts group applies to the following Mfg. Nos.:**

5900702

5900700

## Decal Group - Safety & Operation

**NOTE:** Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:

5900702

5900700

**Decal Group - Safety & Operation**

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5100812	1	DECAL, WARNING
2	5100711	1	DECAL, DANGER
3	5100712	1	DECAL, DANGER, FIRE (SP)
4	5100088	1	DECAL, DANGER, MOWER
5	5101292	1	DECAL, DANGER, MOWER DISCHARGE, SPDD
6	5101290	1	DECAL, CONTROL PANEL, SPDD
7	5100093	1	DECAL, WARNING, HAND IN PULLEY
8	5101291	2	DECAL, CUT HEIGHT, SPDD
9	5100490	1	DECAL, PEDAL
10	5101062	2	DECAL, TRANSAXLE RELEASE
11	5101294	1	DECAL, CUT HEIGHT,LH, SPDD
12	5101295	1	DECAL, CUT HEIGHT, RH, SPDD

**Footnotes**

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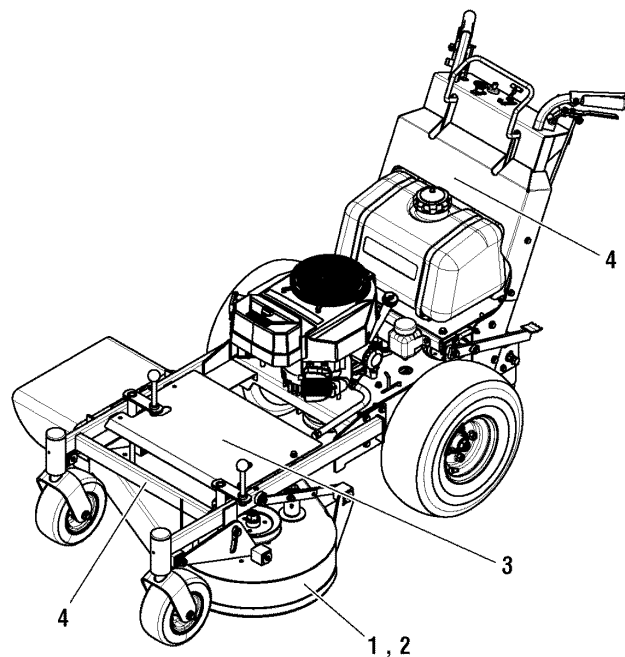
The above parts group applies to the following Mfg. Nos.:

5900702

5900700

## Decal Group - Brand & Model

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



1 — 36"

2 — 48"

3 — **SW 20**

4 —

**SNAPPER PRO**™

5301080

The above parts group applies to the following Mfg. Nos.:

5900702

5900700



***Decal Group - Brand & Model***

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5101322	1	DECAL, 36" (36" Models Only)
2	5022811	1	DECAL, 48" (48" Models Only)
3	5101320	1	DECAL, SW20
4	5101200	1	DECAL, SNAPPER PRO

**Footnotes**

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**The above parts group applies to the following Mfg. Nos.:**

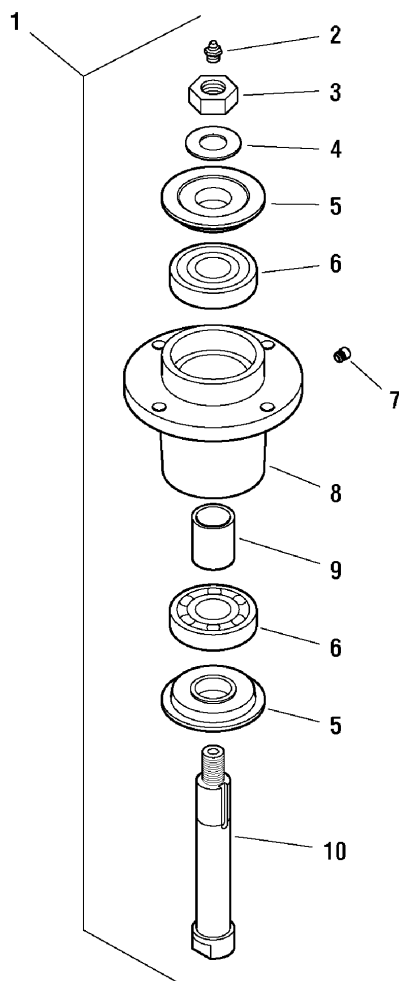
5900702

5900700

## 36" & 48" Mower Deck - Spindle Service Parts

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**NOTE:** Unless noted otherwise, use the standard hardware torque specification chart.



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**The above parts group applies to the following Mfg. Nos.:**

5900702  
5900700

### **36" & 48" Mower Deck - Spindle Service Parts**

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5061095	1	ASSM, SPINDLE, LOW PROFILE (Includes Ref Nos. 2 - 10)
2	5023329	1	GREASE FITTING (SV)
3	5025405	1	NUT, 3/4-16 HEX (SV)
4	5025406	1	WASHER, 3/4 BELLEVILLE (SV)
5	5049793	2	TRASH SHIELD (SV)
6	5023330	2	BEARING (SV)
7	5023296	1	RELIEF VALVE (SV)
8	5061097	1	SPINDLE HOUSING (SV)
9	5061099	1	SPACER, 1.00 X 1.25 X 1.75 (SV)
10	5061098	1	SPINDLE SHAFT (SV)

### **Footnotes**

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**The above parts group applies to the following Mfg. Nos.:**

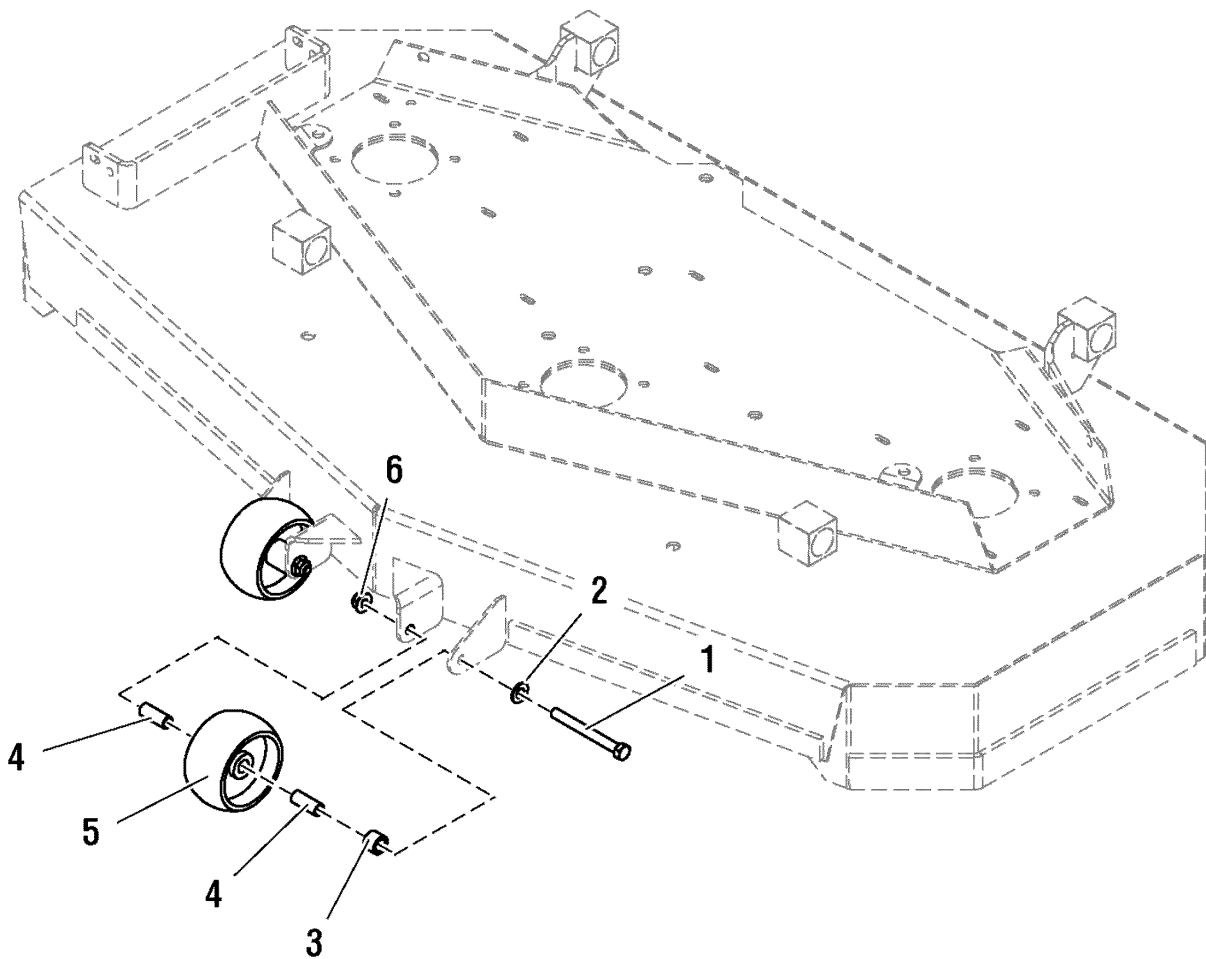
5900702

5900700

## 48" Mower Deck - Rollers Group

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

5300792



The above parts group applies to the following Mfg. Nos.:  
5900700

### ***48" Mower Deck - Rollers Group***

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5025013X28	2	BOLT, 3/8-16 X 3-1/2 GD5 YZ
2	5025156	2	WASHER, 3/8 SAE
3	5047027	2	SPACER, .51 X .75 X .56
4	5041931	4	SPACER, .38 X .50 X 1.25
5	1714760	2	WHEEL- 2.00 WIDE 3.92 DIA 0.531ID POLY
6	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE

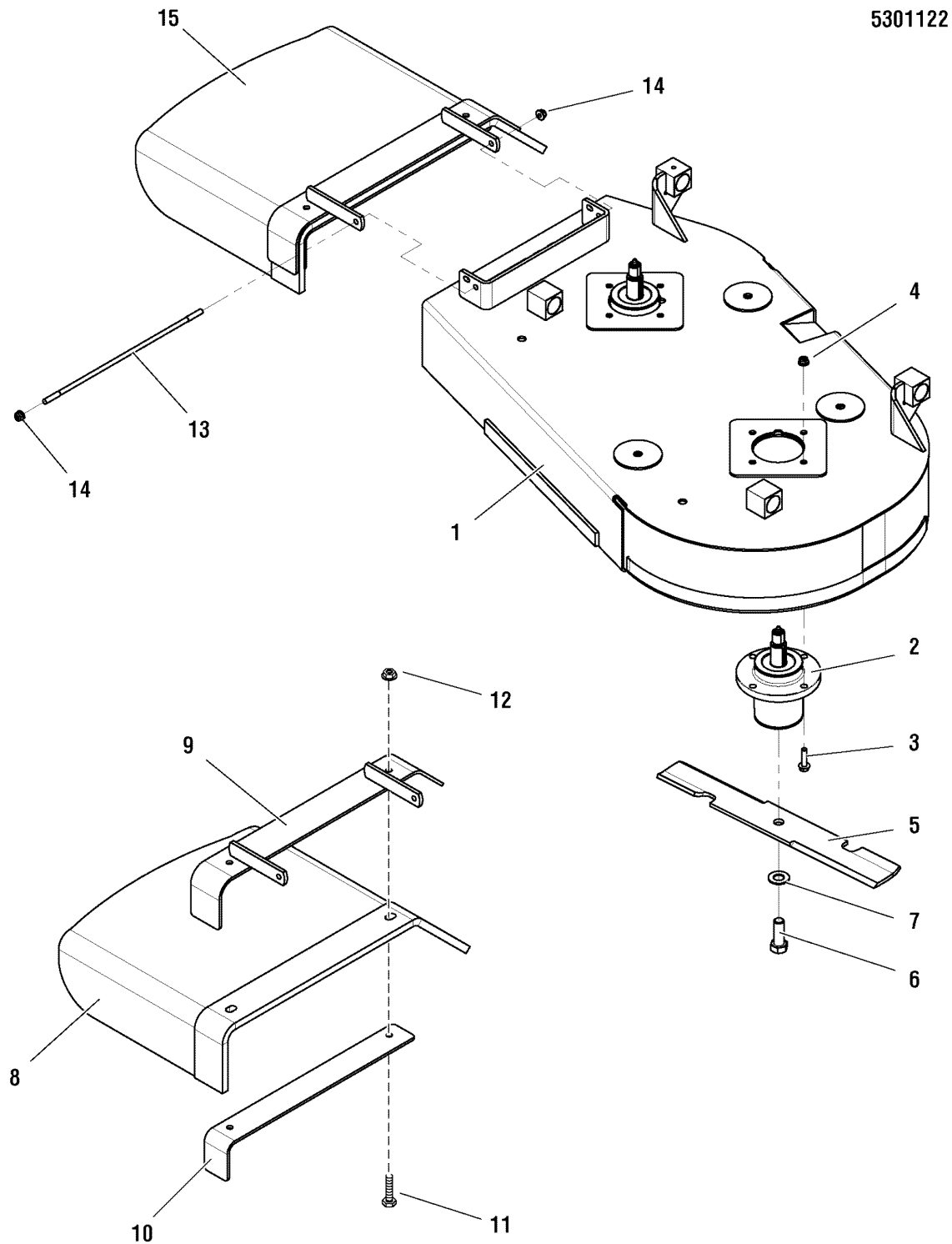
### **Footnotes**

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**The above parts group applies to the following Mfg. Nos.:**  
5900700

## 36" Mower Deck - Housing, Covers, Spindles & Blades

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.



The above parts group applies to the following Mfg. Nos.:

5900702

**36" Mower Deck - Housing, Covers, Spindles & Blades**

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5600171	1	DECK SHELL W/ DECAL, 36" - SW20 (Includes Safety Decals)
2	5061095	2	ASSM, SPINDLE, LOW PROFILE
3	5023156	8	BOLT, 5/16-18 X 1 1/4 FLANGE
4	5025392	8	NUT, 5/16-18 HEX NYLOCK FLANGE
5	5021227S	1	BLADE, 18 (SET OF THREE) (Blades are sold in sets of three.)
6	5025320X14	2	BOLT, 5/8-11 X 1-3/4" GD8
7	5025477	2	WASHER, 5/8" GRADE 8, YZ
8	5402404	1	CHUTE, DISCHARGE, RUBBER, BENT (SV)
9	5402361D	1	WELD, FRAME CHUTE, 44/48/52 -SNP RED
10	5402362D	1	SUPPORT, DISCHARGE CHUTE, 44/48/52-SNP RED
11	5025013X12	2	BOLT, 3/8-16 X 1-1/2 GD5 YZ
12	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
13	5042555	1	ROD, BRAKE LINKAGE
14	5025045	2	NUT, 5/16-24 HEX NYLON LOCK
15	5600132	1	KIT, DISCHARGE CHUTE, SNAPPER PRO (SV) (Includes Ref. Nos 8 - 10)

**Footnotes**

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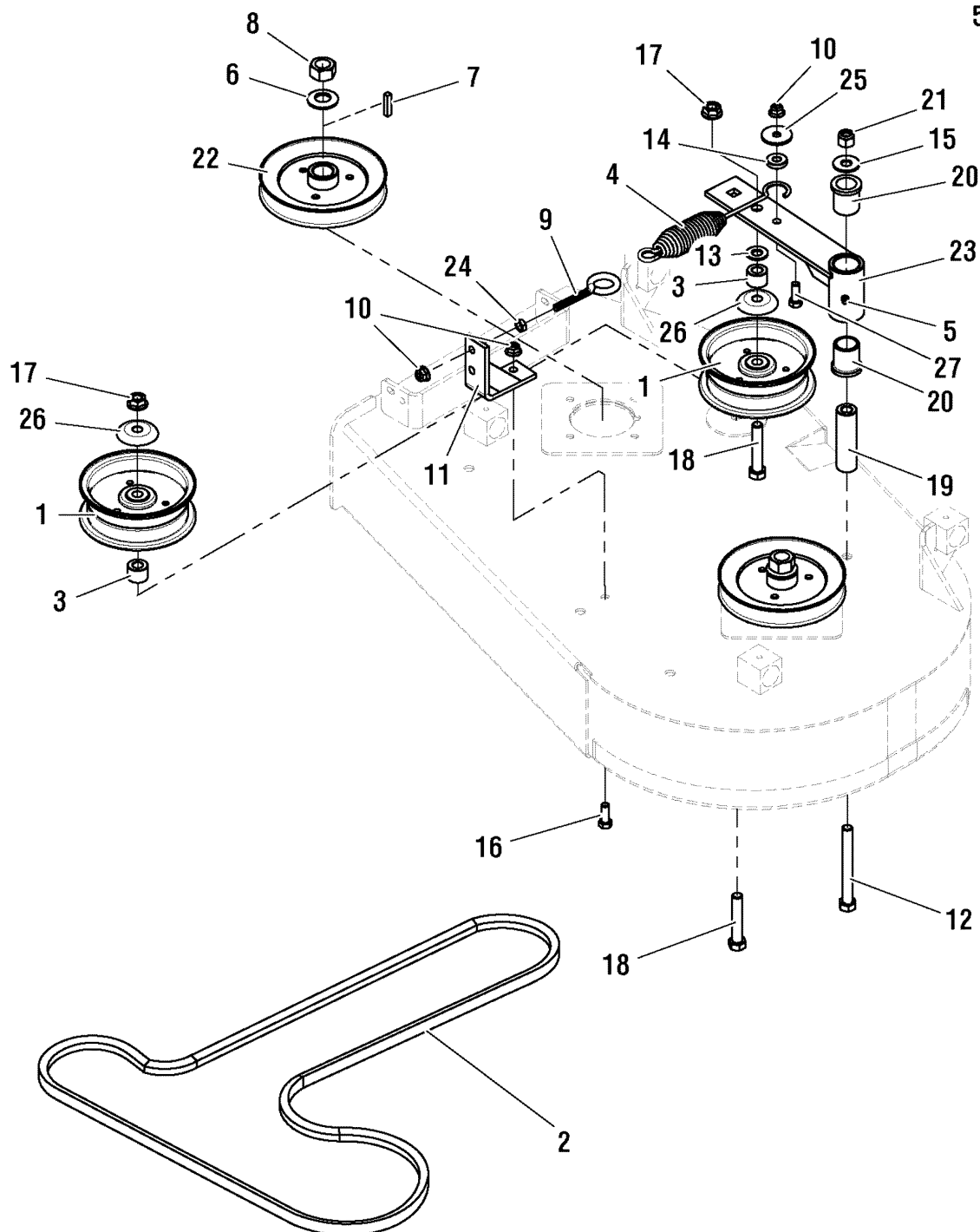
The above parts group applies to the following Mfg. Nos.:

5900702

## 36" Mower Deck - Pulleys, Belts & Idler Arm

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

5301123



The above parts group applies to the following Mfg. Nos.:  
5900702



### **36" Mower Deck - Pulleys, Belts & Idler Arm**

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5101312	2	PULLEY, IDLER, 5.00 WIDE W/ .51 BORE
2	5101313	1	BELT, 83.0 - 83.5 EL, B-SECTION
3	5045178	2	SPACER, .52 X 1.00 X .75
4	5100632	1	SPRING, EXTENSION, SWIVEL. LONG HOOK
5	5020095	1	GREASE FITTING, 1/4-28 STRAIGHT
6	5025406	2	WASHER, 3/4 BELLEVILLE
7	5050407X5	2	KEY, 1/4 SQ. X 1-1/4
8	5025405	2	NUT, 3/4-16 HEX
9	5025429	1	EYEBOLT, 3/8-16 X 4", 2-1/8" OF THREAD
10	5025394	4	NUT, 3/8-16 HEX NYLOCK FLANGE
11	5403902D	1	WELD, ANCHOR EYEBOLT - RED
12	5025017X36	1	BOLT, 1/2-13 X 4-1/2 GD5 YZ
13	5025158	1	WASHER, 1/2 SAE
14	5044960	1	SPACER, .39 X 1.00 X .25
15	5025150	1	WASHER, 1/2 USS
16	5025013X8	2	BOLT, 3/8-16 X 1 GD5 YZ
17	5025396	2	NUT, 1/2-13 HEX NYLOCK FLANGE
18	5025017X22	1	BOLT, 1/2-13 X 2-3/4 GD5
19	5045022	1	SPACER, .52 X 1.00 X 3.50
20	5021541	2	BUSHING, FLANGE
21	5025056	1	NUT, 1/2-13 HEX NYLON LOCK
22	5023178	2	PULLEY, 6.122 OD., 52" DECK
23	5403424D	1	WELD, IDLER ARM SHORT - RED
24	5025084	1	NUT, 3/8-16 HEX JAM
25	5100548	1	WASHER, .390 X 1.50 X .109 YZ
26	5101103	2	SHIELD, PULLEY BEARING
27	5025013X10	1	BOLT, 3/8-16 X 1-1/4 GD5

### **Footnotes**

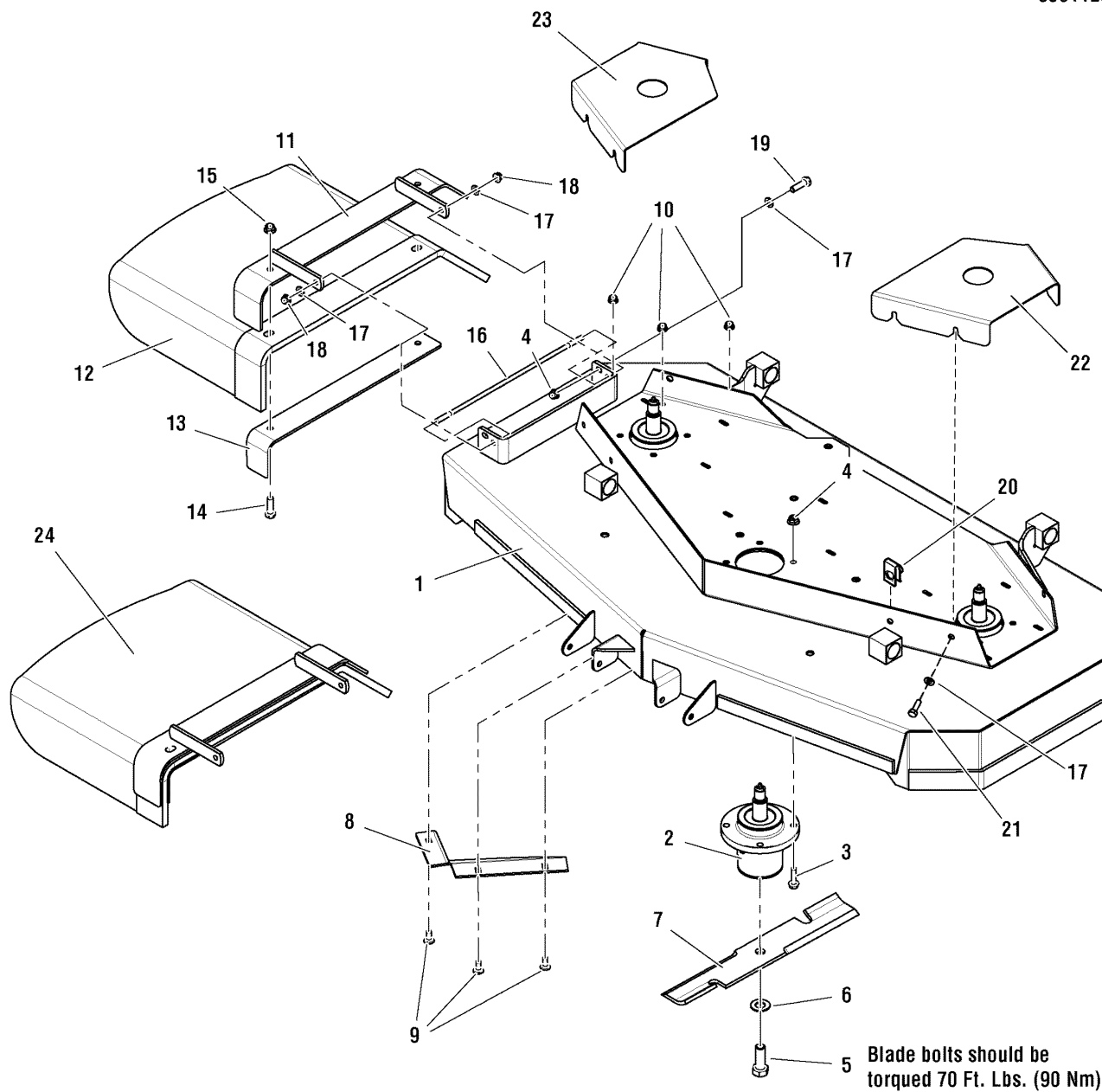
**The above parts group applies to the following Mfg. Nos.:**

5900702

## 48" Mower Deck - Housing, Covers, Spindles & Blades

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

5301128



The above parts group applies to the following Mfg. Nos.:

5900700

### **48" Mower Deck - Housing, Covers, Spindles & Blades**

REF NO.	PART NO.	QTY.	DESCRIPTION
1	5600172	1	DECK SHELL W/ DECALS, 48" - SW20 (Includes Safety Decals)
2	5061095	3	ASSM, SPINDLE, LOW PROFILE
3	5023156	12	BOLT, 5/16-18 X 1 1/4 FLANGE
4	5025392	13	NUT, 5/16-18 HEX NYLOCK FLANGE
5	5025320X14	3	BOLT, 5/8-11 X 1-3/4" GD8
6	5025159	3	WASHER, 5/8 USS
7	5020843S	1	BLADE, 16.25 (SET OF THREE)
8	5401271D	1	WELD, DISCHARGE BAFFLE, 48 - SNP RED
9	5025145X6	3	BOLT, 5/16-18 X 3/4", CARRIAGE
10	5025392	3	NUT, 5/16-18 HEX NYLOCK FLANGE
11	5402361D	1	WELD, FRAME CHUTE, 44/48/52 -SNP RED
12	5402404	1	CHUTE, DISCHARGE, RUBBER, BENT, 44/48/52 (SV)
13	5402362D	1	SUPPORT,DISCHARGE CHUTE,44/48/52-SNP RED
14	5025013X12	2	BOLT, 3/8-16 X 1-1/2 GD5 YZ
15	5025394	2	NUT, 3/8-16 HEX NYLOCK FLANGE
16	5042555	1	ROD, BRAKE LINKAGE
17	5025155	9	WASHER, 5/16 SAE
18	5025045	2	NUT, 5/16-24 HEX NYLON LOCK
19	5025011X6	1	BOLT, 5/16-18 X 3/4 GD5
20	5022308	6	BODY CLIP, 5/16-18 X 1/2 DEEP
21	5025011X8	6	BOLT, 5/16-18 X 1 GD5 YZ
22	5403661D	1	GUARD, DECK, 48, DDS, LH - RED
23	5403660D	1	GUARD, DECK, 48, DDS, RH - RED
24	5600132	1	KIT, DISCHARGE CHUTE, 48/52 (SV) (INCLUDES REF NOS 11 - 15)

### **Footnotes**

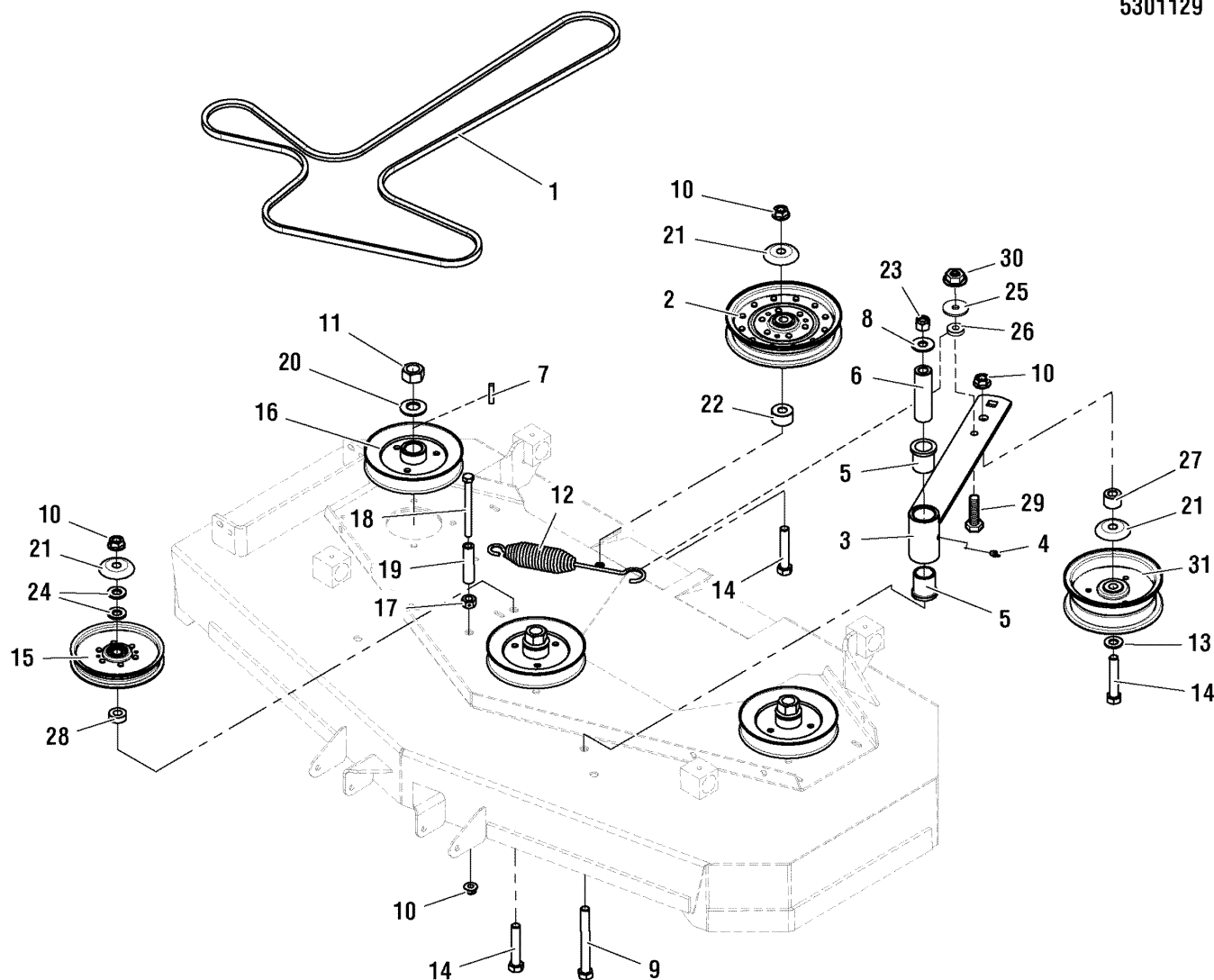
**The above parts group applies to the following Mfg. Nos.:**

5900700

## 48" Mower Deck - Belts, Pulleys & Idler Arm

NOTE: Unless noted otherwise, use the standard hardware torque specification chart.

5301129



The above parts group applies to the following Mfg. Nos.:  
5900700

### **48" Mower Deck - Belts, Pulleys & Idler Arm**

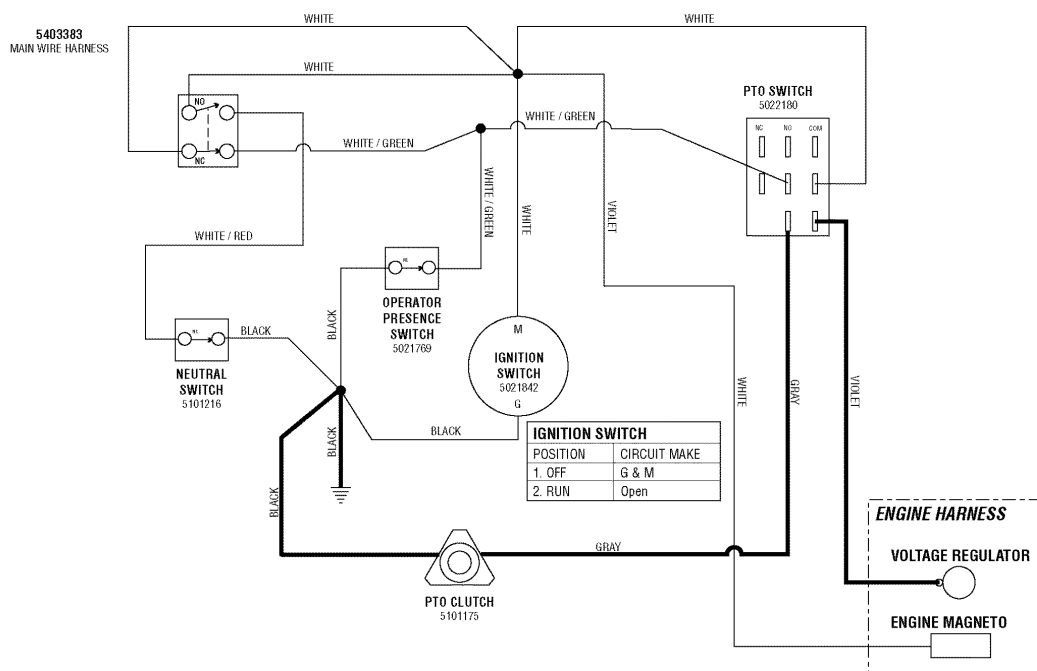
REF NO.	PART NO.	QTY.	DESCRIPTION
1	5021650	1	BELT,# 7-5335
2	5021976	1	PULLEY, IDLER 6-3/4
3	5061305D	1	WELD, IDLER ARM - RED
4	5020095	1	GREASE FITTING, 1/4-28 STRAIGHT
5	5021541	2	BUSHING, FLANGE
6	5061339	1	SPACER, .52 X 1.00 X 3.42
7	5050407X5	3	KEY, 1/4 SQ. X 1-1/4
8	5025150	1	WASHER, 1/2 USS
9	5025017X36	1	BOLT, 1/2-13 X 4-1/2 GD5
10	5025396	4	NUT, 1/2-13 HEX NYLOCK FLANGE
11	5025405	3	NUT, 3/4-16 HEX
12	5100632	1	SPRING, EXTENSION, SWIVEL
13	5025158	1	WASHER, 1/2 SAE
14	5025017X22	3	BOLT, 1/2-13 X 2-3/4 GD5
15	5023264	1	PULLEY, FLAT IDLER, 5.0 X .75
16	5023175	3	PULLEY, 5.72., 48 DECK
17	5025332	1	NUT, 1/2-13 HEX SIDE LOCK
18	5025017X32	1	BOLT, 1/2-13 X 4 GD5
19	5050857X2P5	1	HOSE, 1/2" PUSH-ON 2.50"
20	5025406	3	WASHER, 3/4 BELLEVILLE
21	5101103	3	SHIELD, PULLEY BEARING
22	5047142	1	SPACER, .52 X 1.25 X .70
23	5025056	1	NUT, 1/2-13 HEX NYLON LOCK
24	5025440	2	WASHER, 1/2 GD9 YZ
25	5100548	1	WASHER, .390 X 1.50 X .109 YZ
26	5044960	1	SPACER, .39 X 1.00 X .25
27	5045178	1	SPACER, .52 X 1.00 X .75
28	5044609	1	SPACER, .52 X 1.00 X .38
29	5025013X10	1	BOLT, 3/8-16 X 1-1/4 GD5
30	5025394	1	NUT, 3/8-16 HEX NYLOCK FLANGE
31	5101312	1	PULLEY, IDLER, 5.00 WIDE W/ .51 BC

### **Footnotes**

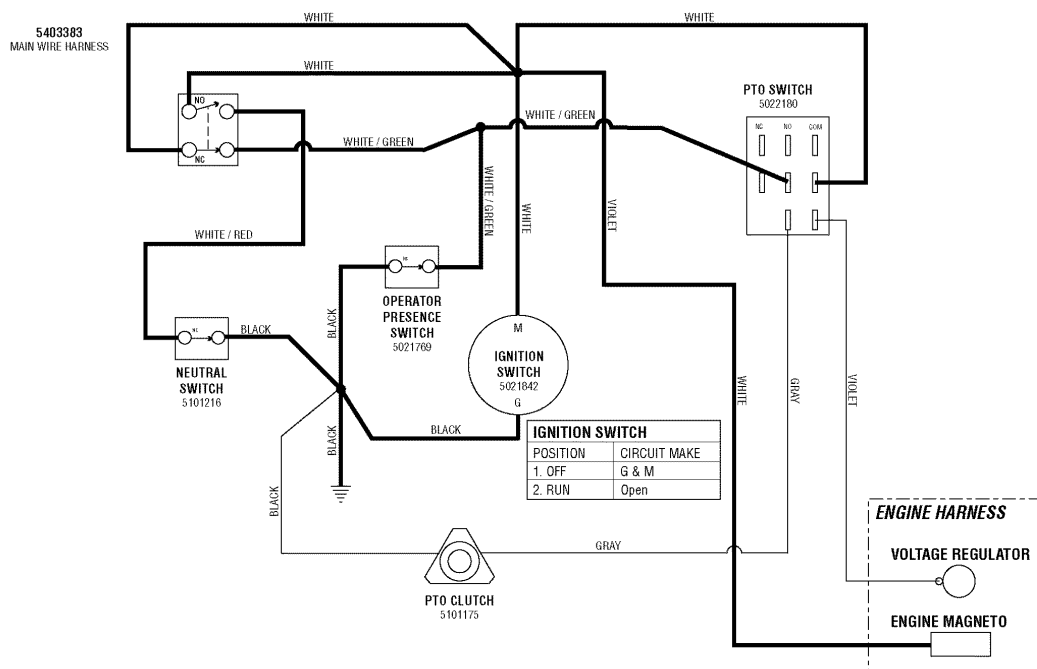
**The above parts group applies to the following Mfg. Nos.:**

5900700

## PTO CIRCUIT



## IGNITION / OPERATOR PRESENCE CIRCUIT



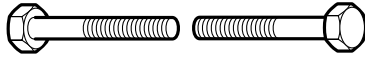
The above parts group applies to the following Mfg. Nos.:

5900702  
5900700

# Hardware Identification & Torque Specifications

## Common Hardware Types

Hex Head Capscrew



Carriage Bolt



Washer



Lockwasher



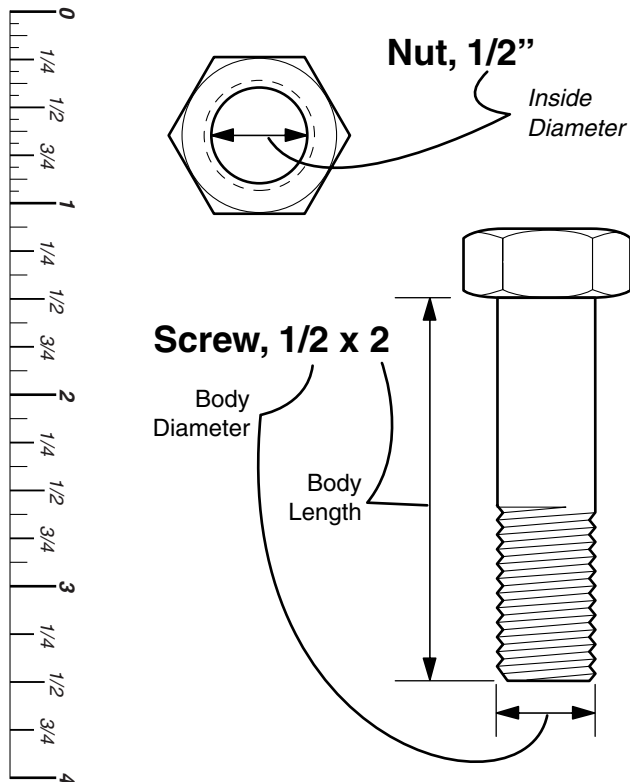
Hex Nut

## Standard Hardware Sizing

When a washer or nut is identified as **1/2"**, this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch; if a second number is present it represents the *threads per inch*

When bolt or capscrew is identified as **1/2 - 16 x 2"**, this means the *Nominal size*, or *body diameter* is 1/2 inch; the second number represents the *threads per inch* (16 in this example, and the final number is the *body length* of the bolt or screw (in this example 2 inches long).

**The guides and ruler furnished below are designed to help you select the appropriate hardware and tools.**



## Torque Specification Chart

FOR STANDARD MACHINE HARDWARE (Tolerance  $\pm 20\%$ )

Hardware Grade	No Marks SAE Grade 2		SAE Grade 5		SAE Grade 8	
	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	27	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

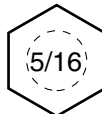
### NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
  - for prevailing torque locknuts - use 65% of grade 5 torques.
  - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

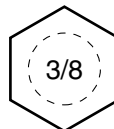
## Wrench & Fastener Size Guide



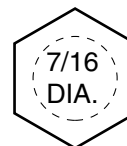
1/4" Bolt or Nut  
Wrench—7/16"



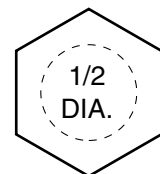
5/16" Bolt or Nut  
Wrench—1/2"



3/8" Bolt or Nut  
Wrench—9/16"



7/16" Bolt or Nut  
Wrench (Bolt)—5/8"  
Wrench (Nut)—11/16"



1/2" Bolt or Nut  
Wrench—3/4"

# **Parts Manual SW20 Series Walk-Behind Mower**

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